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Sup't of Vital Statistics,

LANSING, MICHIGAN.

the New Bork Academyof Medicine.

Be

The Society of the New York Hospital, March, 1898.

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EIGHTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN, FOR THE YEAR 1874.

BY THE

SUPERINTENDENT OF VITAL STATISTICS,

SECRETARY OF STATE

OF THE



LANSING: w. s. george & co., state printers and binders. 1880.

YMAMMI MMA.İ

STATE DEPARTMENT, MICHIGAN, SECRETARY'S OFFICE,

Lansing, November 1, 1879.

HON. CHARLES M. CROSWELL, Governor of Michigan:

SIR,—I herewith submit the Eighth Annual Report of this Department, relative to Births, Marriages, and Deaths, pursuant to Act No. 194 of 1867, as amended by Act No. 125 of 1869, and by Act No. 81 of 1873.

Very respectfully,

WM. JENNEY,
Secretary of State.

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EIGHTH REGISTRATION REPORT

CONCERNING

VITAL STATISTICS OF MICHIGAN, 1874.

GENERAL REMARKS AND STATEMENTS.

This Eighth Annual Report on this subject in this State is based upon returns received by the Secretary of State from the clerks of the several counties, under substantially the same law as has existed from the beginning in this State; and the compilation is under the immediate direction of the same person who has compiled all the preceding reports, except the first two; the compiler acting at first as a committee from the State Medical Society, in accordance with section 5 of act 125, laws of 1869, and later as Superintendent of Vital Statistics in accordance with section 10 of act 81, laws of 1873. The first law, approved March 27, 1867, did not differ much from the present one, approved in 1869, except that under the first law the statistics of births and deaths were enumerated and returned for the year ending the day before the first Monday in April, whereas now (and since the First Annual Report) the births and deaths are enumerated which occurred during the calendar yearending December 31—preceding the year in which they are placed upon record. Certainly it was awkward to compile statistics which were not for a calendar year but for a year ending on a day not fixed in April; but the first law had the merit of attempting to place upon record the important facts relating to births and deaths at a time about as early as was possible and not begin until after the close of the year in which they occurred, while under the present law about one-third of the year has passed after the latest births and deaths which are included in the enumeration occurred, before an attempt is made to place the facts upon record. It might be expected that under this system many of the births and deaths would be omitted; this is no longer matter of conjecture, however, it having been proved that a large proportion of the births, and a still larger proportion of the deaths, are omitted in the enumeration, because of the time which elapses after their occurrence before they are placed upon record. Some of the evidence of this is given in preceding Reports, and in this, as in former Reports, efforts are made to estimate from those returned the numbers of births and deaths which occurred. At the time the law was passed it was not generally known that this method of enumerating the births and deaths after the close of the year would fail of securing so large a proportion as has been found to be the case; but one of the most important facts in this connection is that the omissions are not uniform throughout the year, but a greater proportion of both births and deaths are omitted of those which occur in the first part of the year, because the time which elapses before their enumeration is so much longer than follows the occurrence of births and deaths near the close of the year. This unequal representation of the several months interferes with comparing by months, and seriously hinders the study

of the causes of deaths, which is one of the most important uses of the statistics. This may serve to show how important it is, in order to secure more accurate and valuable statistics, to have the facts placed upon record at or near the time the births and deaths occur—before relatives or friends of the deceased move away or the facts are forgotten. It is greatly to be hoped that the legislature will soon amend the law in this particular.

The most important part of this Report is that which relates to the causes of deaths, for in the knowledge of the causes of deaths is our hope for their prevention. For this purpose, however, we usually need to know more than the name of the disease which ended in death; we want to know all the essential facts relative to each death, such as the age and sex of the person, the month in which the death occurred, the meteorological conditions which prevailed at the time, etc., in order to learn the age of greatest liability to death from each disease, the sex of the person most in danger therefrom, the occupation which involves most danger, the atmospheric conditions to be avoided, etc. As may be seen from the latter part of this volume, which treats of this subject, considerable progress has already been made in such studies in this State.

The value of the evidences collected in these statistics increases greatly as the observations are multiplied by the additions made year by year,—what may be simply incidental in the first Report gains additional interest if the evidence in a subsequent Report confirms it, and may become an established law after observations for a long series of years have shown it to be a general truth; or a generally accepted opinion may, by similar statistical means, be found to have no foundation in fact. In the opinion of the compiler, illustrations of both these propositions are to be found in the Reports on Vital Statistics of Michigan already published, and many propositions are undergoing examination, which, each year, approach nearer a decision of the questions involved.

In the study of, and editorial work upon, the Vital Statistics of Michigan in 1874, the compiler has been greatly aided by the completeness of the work of those in the State Department who have performed the labor of compiling, according to his plans, the numerous tables, exhibits, etc., which go to make up the statistical part of this volume. This work has been done with great care, and with such correctness of plan and accuracy of detail as can only be reached by those who have had considerable experience with statistics of preceding years. In this connection the compiler desires especially to mention the very efficient services of Mr. Louis De Lamarter, whose long experiencewith this work enables him to guard against many errors which would creep in unless some experienced person watched closely all the details; he has given much patient study, and exercised painstaking care to make the tables, exhibits, and diagrams as perfect as possible, and he has greatly aided the compiler in comparing and stating the results. The compiler also acknowledges efficient aid rendered in some parts of the work by Mr. A. L. Gleason, of the office of the State Board of Health.

In submitting this volume to the many who from time to time may seek its pages for evidence on the innumerable questions which arise in connection with the *vital* subjects with which it has to do, the hope of the compiler is strong that it may aid progress in efforts for the prevention of sickness, the prolongation of life, and the general amelioration of the condition of mankind.

Respectfully submitted.

HENRY B. BAKER, M. D., Superintendent of Vital Statistics.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1874.

Exhibit A contains, for each of the years 1868-1874, the number of Marriages, Births, and Deaths in Michigan, and the Excess of Births over Deaths, according to the returns; also, for the years 1871, 1872, 1873, and 1874, the number of Births and Deaths, and excess of Births over Deaths, when they are corrected for omissions in the enumeration. The greatest excess of births over deaths as returned was in 1873, when the natural increase of population was 20,350; but the greatest excess when the births and deaths are corrected for omissions was in 1874. This last showing is to be taken with some caution, because the correction is based upon certain hypotheses, and because of the many circumstances which may modify the accuracy of the method of correction. An imperfect and defective law yields statistics which need some correction, and the method adopted by the compiler is the best known to him.

EXHIBIT A.—Births, Marriages, and Deaths returned as having occurred in Michigan during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, including those in unknown month; also, for the Years 1871, 1872, 1873, and 1874, the Births and Deaths, and Excess of Births over Deaths, after they have been Corrected for Omissions in the Enumeration.

		1868.	1969.	1870.	1871.	1872.	1873.	1874.
	(Marriages	8,697	10,392	9,773	10,577	10,678	11,742	11,041
As Beturned,	Births	25,020	27,093	26,663	25,993	27,993	34,608	81,151
Set u	Deaths	8,235	9,145	10,766	9,728	13,371	14,258	12,500
-	Ex. of Births over Deaths	16,785	17,948	15,897	16,264	14,622	20,350	18,651
필호 .	Births				37,104	43,061	45,088	55,841
As rrected Cmis- ions.	Deaths			•	15,723	21,101	20,312	20,090
85	Ex. of Birthsover Deaths				21,381	21,980	24,776	85,751

⁻ Corrected, for additional returns, up to March 15, 1876.

Exhibit B is similar to that in previous Reports, with the data for 1874 added. The natural daily increase of population in 1874, according to the returns of births and deaths, is smaller than in 1873, but greater than in the previous years; when the births and deaths are corrected for omissions in the enumeration, the natural daily increase is greater in 1874 than in any previous year.

The exhibit is a condensed account of many important relations,—between the births, marriages, and deaths, respectively, and the inhabitants of the State, of each sex,—between the births and the deaths,—of one sex to the other, as relates to births and to deaths, etc.

EXHIBIT B.— Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1870, 1871, 1872, 1873, and 1874. (According to the returns of births, marriages, or deaths, as the case may be, except some correction is mentioned.)

	·1870. ь	1871. b	1872. b	1873. b	1874. b
Inhabitants represented by returns of marriages to one marriages. In population represented by marriages, males to one marriage.	120.66 62.97	111,41 58,13	110,92 57.90	100.86 52.65	107.26 56.00
In population represented by marriages, females to one marriage	57.68 37.21	53.28 36.66	53.01 85.88	48.21 32.14	51.27 34.16
Female inhabitants at ages at which marriages occurred to one marriage	87.80	36.29	34.53	32.66	83.54
Inhabitants represented by births to each child returned	43.43 43.59	44, 13 48,97	41.77 42.19	84.07 84.85	37.89 37.84
Inhabitants, females to each female child returned	43.57	44.57	41.58	33.90	38.08 23.75
Inhabitants, females aged 16 to 45 to each child returned	9.35	9.51	8,98	7.32	8,16
Ohildren born to 100 females aged 16 to 45	10.68	10.52	11.13	13.66	12.25
Inhabitants represented by deaths to one death	107.18	117.54	86.61	82.46	93.77
Inhabitants, males to one death of male	107.48	114.75	84.00	80.16	91.76
Inhabitants, females to one death of female	107.50	121.67	89.93	85.34	96.59
Deaths, males to 100 females	108.73	115.17	116.55	110.10	114.83
Births, males to 100 females	108.80	110.21	107.46	107.67	109.88
Total population of State, males to 100 females	109.22	109.22	109,22	109.22	109.22
Births to one death	2.47	2.67	2.09	2.43	2.49
Births, males to one death of male	2.47	2.62	201	2.84	2.44
Births, females to one death of female	2.47	2.74	2.18	2.52	2.55
Children born of which the sex was unknown or not stated	91.00	69.00	83.00	68.00	49.00
Deaths of which the sex was unknown or not stated	87.00	35.00	27.00	17.00	81.00
Natural daily increase of population as per births and deaths returned	43.55	44.56	39 .95	55.76	51,10
C, page 122		58,58	60.06	67.88	97.95

Marriages corrected, for additional returns, up to March 15, 1876.
 In computing statements for this column the inhabitants, June 1, 1870, were used. The State Census is not available because of imperfections in its plan.

EXHIBIT C.—By Nativity and Sex, the Number of Persons Married, the Number of Children Born, and the Number of Decedents in Michigan during the Year 1874 to 100 Inhabitants, June 1, 1870; Births, Marriages, and Deaths according to the Returns.

NATIVITY OF PERSONS MAR- RIED, OF DECEDENTS, AND OF PARENTS OF CHILDREN	To 100 Inhabitants, June 1, 1870,												
	PERSON	8 MARKII	ED, 1874.	CHILD	REN BORN	, 1874.	DECEDENTS, 1874.						
Born.	Total.	Males.	Fe- mules.	Total.	Males.	Fe. males.	Total.	Males.	Fe- males.				
Native	1.69	1.60	1.78	1.45	1.48	1.42	1.08	1.12	1.04				
Foreign	2.35	2.30	241	8.96	8.71	4.26	.80	.80	.8				

a In Persons Married, and Parents, only those cases are included where both parties are "Native" or "Foreign."

Some interesting comparisons may be made from Table I, which shows the average number of Births, Marriages, and Deaths, and excess of births over deaths for certain specified periods of time during the year 1874. On an average, 51.10 more births than deaths occurred on each day of the year 1874, according to the returns; and when the returns are corrected for omissions in the enumeration, it appears that there were 97.95 more children born every day than there were persons who died.

TABLE I.—The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year, and the Average Number and Excess during Specified Periods of Time within the Year 1874, as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.

	PERIODS OF TIME, 1874.	Marriages, 1874.	Births, 1874	Deaths, 1874.	Excess of Births over Deaths.
4	Year, 1874	11,041.00	81,151.00	12,500.00	18,651.00
Per de	Quarter	2,760.25	7,787.75	8,125.00	4,662.75
Par.	Month	920,08	2,595.92	1,041.67	1,554.25
Births and Death	Week	212.32	599;06	240.88	359.68
H T	Day	30.25	85.35	84,25	51.10
ą.	Year, 1874		55,796.00	20,044.00	85,752.00
A P	Quarter		13,949.00	5,011.00	8,938.00
ZE.	Month		4,649.67	1,670.33	2,979.34
Births and Dea	Week		1,078.00	385.46	687.54
Ä	Day		152.87	54.92	97.95

[.] Births and deaths in unknown month excluded.

EXHIBIT 1.—By Months, the Births, Deaths, and Excess of Births over Deaths in Michigan during each of the Years 1867 to 1874, inclusive, according to the Returns.

						M	ONTH	8.					
	TOTAL *	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
(Births					1,573	1,3/2	1,385	1,542	1,704	1,641	1,661	1,502	1,55
1867 Deaths.		 			532	383	846	373	512	627	555	485	51
Excess of Births					1,041	989	1,039	1,169	1,192	1,014	1,106	1,017	1,03
Births	24,641	1,699	1,759	2,043	1,607	2,037	1,944	2,163	2,399	2,362	2,246	2,099	2,28
1868 Deaths	8,105	535	583	699	486	503	482	747	983	1,041	776	602	66
Excess of Births	16,536	1,164	1,176	1,844	1,121	1,584	1,482	1,416	1,416	1,321	1,470	1,497	1,61
Births	27,023	1,658	1,752	2,005	2,042	2,221	2,085	2,466	2,731	2,682	2,508	2,361	2,51
1869 Deaths	9,097	436	561	761	712	652	630	687	1,068	1,194	874	686	83
Excess of Births	17,926	1,222	1,191	1,244	1,330	1,569	1,455	1,779	1,663	1,488	1,634	1,675	1.67
(Births	26,531	1,604	1,737	2,099	2,076	2,275	2,140	2,339	2,559	2,602	2,480	2,233	2,38
1870 Deaths	10,731	421	553	724	678	689	754	1,084	1,473	1,363	1,132	933	92
Excess of Births	15,800	1,183	1, 184	1,375	1,398	1,586	1,386	1,255	1,086	1,239	1,348	1,300	1.46
(Births	25,926	1,737	1,688	1.987	1,899	2,046	1,898	57.00	100	100	100	2,329	100
1871 Deaths	9,671	529	578	781	721	750	626	70.0	100	1,055	100		1,02
Excess of Births	16,255	1,206	1,110	1,206	1,178	1,296	1.272	1,383	1,453	1,463	1.545	1,531	1
Births	27,965	1.774	1,899	2,195	2, 253	2,281	2,250	3800	1500	13230	100	2,357	130
1872 Deaths	13,341	602	756	941	1,140	979	815	300	7.2	3.55		1,058	1
Excess of Births	14.624	1,172	1,143	1,254	1, 113	1.302	1,435			1.00	1	1,299	1
(Births	34,538	2,112	2,249	2,847	2,711	2,794	2,599	1	500	100	1	3,017	1.5
1873 Deaths	14,199	859	1,104	1,248	1,174	1,121	1,040	6,000	100	1000	1000	1,067	-
Excess of Births	20,349	1,233	1,145	1.599	1.537	1.673	1,559	6.73	1	100		1,950	1
(Births	81,106		1,954	2,462	2,464	2,596	2,559	25.4	100	100	1000	2,726	1
1874 · Deaths	12,454	655	672	-,	1,102	1,071	866	-	1	1,517	1	15 XX	1,12
Excess of Births	18,652	***		"	1.362	1,515	1,692	0.890		30.5	1	1,758	1
Monthly averages of		-,	-,=,=	"	.,	.,	",""	.,	1	1,500	1,000	1,	1,00
excess for 1868 to 1874, inclusive		1,207	1,176	1,366	1,291	1,496	1,466	1,533	1,456	1,427	1,504	1,573	1,668

[·] Unknown month excluded.

EXHIBIT 2.—Births in Michigan, by Months, during the Year 1874, and Marriages and Deaths during Months of Conception of same, showing the Births and Deaths as Returned, as Corrected for Omissions in Enumerating, and Equalized for Increase of Population during the Year,—all Months Equalized to Uniform length of 30,44 days.

							Mo	NTHS	, 1874					
	Total.		Feb.	Mar,	Apr.	May.	J'ne.	J'ly.	Aug.	Sept.	Oct.	Nov.	Dec.	Av. Month
Births, 1874, equalized (to months of uniform	93.300	-	-	-	-	_	+	+	+	+	+	+	+	0.001.0
length (31,100	1,865	2,124	2,418	2,500	2,539	2,595	2,711	3,021	3,016	2,677	2,766	2,868	2,591.6
Births, 1874, corrected for omissions in enumerating, and equalized to months of uniform length	55,846	4,207	4,626	+ 5,075	+ 5,052	+ 4,931	+ 4,837	+ 4,840	+ 5,156	+ 4,910	4,148	4,069	3,995	4,653.8
Births, corrected and equalized to months of uniform length	57,139	4,383	+ 4,804	+ 5,252	+ 5,211	+ 5,070	+ 4,956	+ 4,941	+ 5,246	+ 4,979	4,192	4,097	4,008	4,761.58
		1873.								1874.				
		Apr.	May.	J'ne.	J'ly.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Av. Month
Marriages, equalized (to months of uniform { length	11,932	914	884	895	+	825	+	+	+	+	940	+	920	994.33
Deaths, equalized to months of uniform length	13,209	1,191	+	1.055	+ 1.155	+	+	1.935	1.083	+	643	730	902	1,100,7
Deaths, corrected for comissions in enumer.	10,200	+	+	_	+	+	+	-,	_	_	_	_	+	1,100,1
ating, and equalized to months of uniform length	19,344	1,832	1,648	1,536	1,633	2,069	1,988	1,594	1,352	1,346	1,272	1,400	1,674	1,612.00
Deaths, corrected and fequalized to months of uniform length	19,782	+	+	1,574	+	+ 2,105	+ 2,016	- 1,610	- 1,361	- 1,351	- 1,326	1,455	+	1,648.50

In Exhibit 2 the plus and minus signs indicate, respectively, that in the months where they occur the number is greater or less than the "Average Month," as the case may be.

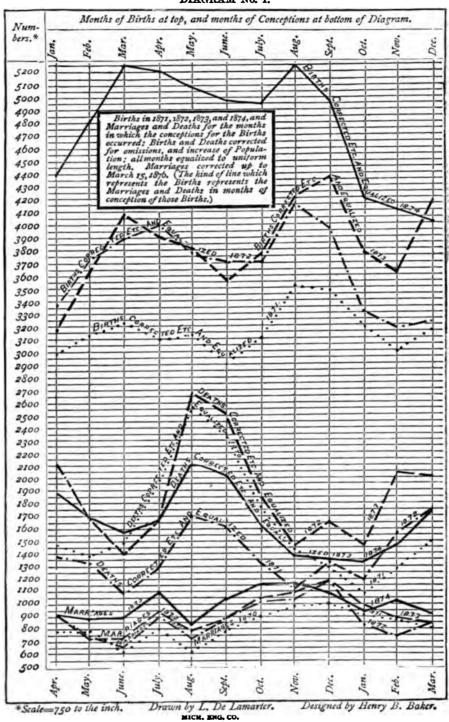
Using the number of births returned as the datum, propositions may be made as follows:

- (1). More than an average number of conceptions occurred in months in which more than an average number of marriages were solemnized, and vice
- (2). Less than an average number of conceptions occurred in months in which more than an average number of deaths occurred, and vice versa.

According to Exhibit 2, there are three exceptions to each of the above propositions. The relations of the births, marriages, and deaths, in each of the years 1871, 1872, and 1873, to the births, marriages, or deaths in each of those years are graphically shown in Diagram 1, page xv.

Excluding unknown month.
 Marriages corrected, for additional returns, up to March 15, 1876.

DIAGRAM No. 1.



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EXHIBIT D.—Grouping the evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the Returns; the Evidence Exhibited covering the Years 1869, 1870, 1871, 1872, 1873, and 1874.

		1869.			1870.			1811			1872			1873.			1874.	
BIRTHS, DEATHS, AND EXCESS OF BIRTHS.	LatoT	Both Parents of Chil- dren Native, Deaths of Native-born,	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	Total	Both Parents of Chil- dren Native. Deaths of Native-born,	Both Parents of Chil- dren Foreign, Deaths of Foreign, born.	Totel,	Both Parents of Chil- dren Native, Deaths of Native-born.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	.fatoT	Both Perents of Chil- dren Native, Deaths of Native-born,	Both Parents of Chil- dren Foreign, Deaths of Foreign-born,	JatoT	Both Parents of Chil- dren Mative, Deaths of Mative-born,	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	Total,	Both Parents of Chil- dren Mative. Deaths of Mative-born.	Both Parents of Chil. dren Foreign. Deaths of Foreign.born.
Births, by Parent-Nativity.	* 27,093	13,060	8,043	A 26,663	12,395	8,604	a 25,992	11,374	8,734	n 27,993	12,907	9,721	a 34,608	16,202	11,946	a 31,151	13,341	10,517
Deaths, by Nativity	6 9,145	c 7,517	4 1,275	b 10,766	8,804	1,609	b 9,728	c 7,759	d 1,608	b 13,371	c10,813	9,146	b 14,248	e 11,600	d 2,334	b 12,500	e 9,937	4 2,128
Excess of Births over Dea's	17,948	5,543	6,768	15,897	3,591	6,995	16,264	3,615	7,126	14,622	2,095	7,575	20,360	4,602	9,619	18,651	3,404	8,386

. Includes children of mixed parentage, and those where the Nativity of one or both parents was unknown.

d Includes only persons who were born in foreign countries.

b Includes deaths of persons of unknown nativity.

e includes all deaths of persons born in the United States, whether born of Native or of Foreign-born Parents.

TABLE II.—Exhibiting, by Sex, the Population, June 1, 1870, the Number of Marriages, Births, and Deaths, and the Excess of Births over Deaths in Michigan during the Year 1874, according to the Returns.

STATE	Populati	POPULATION, JUNE 1, 1870.	, 1870.			Вівтив, 1874.	, 1874.			DEATES, 1874.	, 1874.		Excres .	Excress of Births over Deaths.	S OVER D	EATHS. A
AND		88	SEX.	Marriages, 1874.			Sex.				Sex.				SEX.	
COUNTIES.	TOTAL.	Males.	Females.		Total.	Malos	Fe. males.	Un- known.	Total.	Malos.	Fe. males.	Un. known.	Total.	Males.	Fo. males.	Un- known.
STATE	1,184,282	618,251	566,031	11,041	81,151	16,283	14,819	3	12,500	6,665	108'9	3	18,651	9,618	9,015	18
Alcona	766	13	825	10	8	18	13	64	=	*	7	1	81	15	9	_
Allegan	32,106	17,000	15,106	277	169	798	22		811	17.	137		88	190	196	
Alpenab		1,719	1,037	28	82	23	8		82	13	22		92	8	\$	
Antrim	1,985	1,118	198	8	5 0	83	\$		8	ន	2		7	8	æ	
Baraga					\$	38	12		2	9	*		8	88	•	:
Barry	22,300	11,646	10,554	178	523	280	24.1	-	195	105	88	-	327	175	153	
Вау	15,900	8,914	986'9	203	8	202	827		250	137	113		710	388	378	
Benzie	2,184	1,168	1,016	11	92	32	3		82	7	10		8	83	ន	!
Berrien	35,104	18,063	17,041	Š	3	276	265		886	219	176		146	57	88	
Branch	28,227	13,248	12,979	808	88	872	219	-	220	114	105	1	278	164	114	i
Calhoun	36,571	18,550	18,021	341	23	862	252		300	154	146		25	771	106	
Cass	21,096	10,938	10,158	303	22	174	148	-	141	76	8		181	88	88	-
Charlevoix	1,724	941	783	ន	\$	37	27		21	8	13		\$\$	83	15	
Cheboygan	2,197	1,235	3963	8	365	22	48		72	51	13		18	3	\$	
Ohlppews	1,690	830	240	9	73	8	\$		80	10	99		8	83	37	
Clare	386	2883	8	9	\$	ន	11		82	18	13		12	7	10	
Clinton	22,851	11,813	11,088	160	919	272	243	-	195	103	91	-	830	169	191	
Dolta	2,441	1,486	956	8	133	3	8		8	ង	91		Z	17	8	
Eaton	25,163	12,949	12,214	888	072	983	ន្ត	•	883	146	88	-	룘	140	162	

Emmeth	1,211	83	2883	8	28		8		31	8	Ħ		6		•	
Genesee	33,895	17,449	16,446	314	790	317	248	-	83	119	101		344	198	145	1
Gladwin					ю.	•	7		-		-		•	•		
Grand Traverse	1,443	2,389	2,054	ಷ	16	23	8		23	22	S		29	3	19	
Gratiot	11,808	6,189	5,619	8	376	8	171		127	8	89		249	9	109	
Hillsdale	31,688	16,104	15,584	\$	717	222	218	7	231	113	106	01	223	113	113	7
Houghton	13,883	7,745	6,137	138	38	418	878	-	23	134	91		573	782	88	-
Huron	8,048	5,036	4,013	æ	430	243	186	7	111	61	9	1	818	183	137	
Ingham	25,268	13,096	12, 173	88	883	8	8	-	202	135	121		321	157	163	-
Ionia	27,675	14,452	13,223	243	202	810	88		8	147	139		808	8	146	
Iosco1	3,175	1,913	1,362	31	8	1	*	69	8	92	2		ž	88	76	64
Isabella	4,113	2,211	1,902	8	123	19	8		8	11	ន		87	8	31	
Jackson	36,040	19,056	16,984	288	713	978	988	1	277	33	143	-	436	218	223	
Kalamazoo	32,065	16,523	15,543	308	833	98	330	80	ž.	111	152	69	301	132	168	-
Kalkaska	753	77	180	a	8	37	8		2	7	-		19	8	23	
Kent	50,410	26,166	24,244	250	1,528	788	285	10	883	88	88	4	343	8	944	-
Кемеева W	4,208	2,327	1,879	×	214	121	æ		8	8	71		181	82	2	
Lake	848	302	243	31	82	ន	ಷ		88	22	=		ន	ដ	8	

The figures with the minus sign placed before them indicate the excess of deaths over births.
 No returns of births or deaths from the township of Ossineke.

· No returns of deaths from the township of Otsego Lake.

d No returns of births or deaths from the township of Clayton.
 No returns of deaths from the townships of Burt and Invernoss.
 No returns of births or deaths from the township of Warner, and no returns of deaths from the township of Sugar Island.

s No returns of births or deaths from the townships of Masonville and Sack Bay, and no returns of deaths from the township of Winons.

No returns of deaths from the township of Rear Grash

k No returns of births or deaths from the townships of Bloomfield and White Rock, and no returns of deaths from the townships of Brookfield, Meado, 1 No returns of births or deaths from the township of Whitewater.
3 No returns of deaths from the township of Elba.

and Sand Beach.

1 No returns of births or deaths from the township of Baldwin.
B No returns of births or deaths from the townships of Sherman and Union, and no returns of deaths from the townships of Chippews and Bolland.

TABLE II.-CONTINUED.

	POPULATI	Population, June 1, 1870.	, 1670.			Birrus, 1874.	1874	-		DEATHS, 1874.	, 1874.		Excres	EXCRES OF BIRTHS OVER DEATHS.	S OVER 1	EATES.
COUNTIES.		SEX.	H	Marriagos, 1874.			SEX.				SEX.				Sex.	
	Total.	Malos.	Females.		Total	Malor.	Fo. malos.	Un. known.	Total.	Malos.	Fe. males.	Un. known.	Total	Males.	Fe. malet.	Un- known.
Lapeer	21,342	11,061	10,291	761	101	993	83	-	224	118	105	1	287	148	119	
Leelanaw	4,577	2,401	2,176	8	112	8	8		\$	81	77		8	ಪ	잃	
Lenawee	45,601	22,916	22,685	17	22	8	8		82	20	167		88	888	171	
Livingston	19,336	10,072	9,263	151	\$	187	219		881	88	8		218	28	87	
Mackinacb	1,715	88	810	88	8\$	8	11	-	4	80	92		8	75	7	1
Macomb	27,619	14,086	13,523	180	8	S S	**	-	270	141	133	-	22	178	99	
Manistee	6,074	8,458	2,616	67	282	3	158		2	æ	83		155	112	116	
Manitoud	88	887	403	80	8	#	95	i	6	-	e:		2	7	7	
Marquette	14,278	8,485	5,793	908	88	33	25	-	នី	142	113		687	811	97.6	
Mason	3,286	1,814	1,452	87	97	8	22	•	15	83	8		8	\$	8	
Mecosta	5,645	3,061	2,584	87	268	134	13		8	\$	3		88	100	88	
Menominee	1,895	1,266	839	81	=	*	7		64	64			G	04	1	
Midland	8,983	1,813	1,470	Ħ	28	8	76	-	\$	22	8	-	116	2	23	
Missaukee	130	76	2	64	ន	18	1		80	61	-		81	16	æ	
Monroe	27,475	13,950	13,525	246	111	98	25	n	262	149	ш	64	80	287	27.1	=
Montcalmh	13,641	1,284	6,357	165	413	22	28	69	191	8	8		223	127	88	64
Muskegon	14,893	8,402	6,490	158	124	241	828	-	170	88	8	-	301	156	146	
Newaygo	7,293	8,910	3,382	\$ 8	28	æ	28	-	8	88	2 3		116	23	8	-
Oakland	906'07	21,135	177,61	273	553	928	278		88	168	127		267	118	149	
Oceana	7,223	8,948	8,274	#	676	331	124		88	3	\$		190	8	82	
Ontonagon	2,846	1,430	1,416	7	91	\$	9	_	88	25	92		8		8	

Oscools	9,104	1,167	1 282	47	910	100	101	:	8	24	83		180	88	82	
Ottawa	98,680	14,050	12,600	8	873	197	503		8	167	131		\$19	800	274	:
Presque Islem	33	83	138	9	81	2	13	-	8	*	63		18	7	6	
Saginaw	80'08	21,064	18,034	878	1,335	710	643	69	88	883	27.5		787	417	368	•
Sanilac	14,565	7,722	6,843	101	250	7 62	236		98	3	67		380	201	150	
Schooleraft	786	519	988	8	3	81	8		8	22	-0		8	=	23	
Shiawassee	20,823	10,815	10,007	152	453	230	223		28	8	84		88	149	138	
St. Clair	36,739	110,61	17,748	88	1,014	226	486	69	33	202	25	97	33	824	338	7
St. Joseph	96,273	13,480	12,792	278	97	213	28	-	202	107	8		2	133	88	
Tuscola	13,715	7,263	6,452	121	427	228	202	-	851	8	28	-	88	145	33	7
Van Buren	28,835	14,907	13,928	257	518	273	244		27.1	9	131	i	245	133	113	:
Washtenaw	41,440	21,478	19,962	214	88	837	SS SS		33	81	175		311	157	3	:
Wayne	119,068	29,964	£0,104	1,023	4,854	2,280	2,055	2	1,869	1,036	88	9	2,486	1,253	1,220	•
Wexford	93	#	908	83	8	<u></u>	8	T	95	•	22		Q	8	2	

The figures with the minus sign placed before them indicate the excess of deaths over births.

No returns of deaths from the township of Holmes.

No returns of births or deaths from the township of Arcadis, and no returns of births from the township of Morilla. No returns of deaths from the townships of Chandler, Galilee, and South Manitou.

No returns of deaths from the township of Forsyth.

No returns of births or deaths from the townships of Hamiln, Lincoln, and Summit, and no returns of deaths from the townships of Branch, Free Soil, No returns of births from the township of Mt. Hayley, and no returns of deaths from the townships of Edonville, Jasper, and Porter. and Victory.

No returns of deaths from the townships of Douglass, Holmes, Reynolds, and Winfield.

No returns of deaths from the townships of Fruitland and Fruitport.

No returns of births or deaths from the township of Brooks. No returns of deaths from the township of Newfield.

1 No returns of deaths from the township of Hartwick.

m No returns of births or deaths from the townships of Presque Isle and Rogers.

No returns of deaths from the townships of Albee and Chapin. No returns of births or deaths from the townships of Clam Lake and Harring.

EXHIBIT E.—Showing, for the State and Counties of Michigan, the Number of Births and Deaths Returned to this Department as having occurred out of Michigan during the Years 1870, 1871, 1872, 1873, and 1874.

STATE AND	18	70.	18	71.	18	72.	15	73.	157	14.
COUNTIES.	Births.	Deaths,	Births.	Deaths.	Births.	Deaths.	Births.	Deaths,	Births.	Deaths.
STATE	264	70	279	82	283	98	467	123	248	70
Alcona					1			1		
Allegan	5	2	6	2	2	2	2	2	1	
Alpena										
Antrim	2									
Baraga	-									
Barry	11	1	7	2	8	3	11	1	6	
Bay	7	2	17	1	50	5	23	1	13	8
Benzie					2	2				
Berrien	8		8	9	9	8	24	5	7	2
Branch	6	1	7	2	5	2	15	3	9	8
Oalhoun	5	4	1	1	8	5	11	1	3	9
Cass	15	2	8		4	6	13	2	3	
Charlevoix					1					
Cheboygan	ļ							- 	1	
Ohippewa						1				
Olare					1	 	1	1		
Clinton	8	8	7	1	4	1	9	4	1	
Delta	4	1	5	1						j :
Eaton	9	3	4	1	2		5		3	!
Emmet		1								
Genesee	6	1	3		3		7	2	2] :
Gladwin]				
Grand Traverse	1					1	1	1	3	
Gratiot	4		7	1	8	1	4	1	5	
Hillsdale	8		7	3	5	2	12	2	15	4
Houghton	2		4	1	10	1	6	2	8	
Huron	1	ļ	4	4	11	1	5	1	 	
Ingham	2	3	1		2	2	8	2	6	; ا
Ionia	1		1	2	ļ		n	3	4	;
Iosco	3						1		1	
Isabella	3		8	3	1	1	3	1		
Isle Royal		 	•••••							
Jackson	17	4	10	4	11	8	16	7	10	
Kalamazoo	8	5	9		8	2	19	6	12	1 .

EXHIBIT E.—CONTINUED.

	18	70.	18	71.	18	72.	18	73.	18	74.
COUNTIES.	Births.	Deaths.	Births.	Deaths,	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
Kalkaska									2	1
Kent	15	1	29	4	86	9	43	10	20	4
Keweenaw							1			
Lake				••••	<i></i>		1			
Lapeer	3		7		1	2	6	1	1	
Leelanaw	2		1		1	1				
Lenawee	11	10	17	9	13	6	18	7	12	2
Livingston	8		8	9	5	2	3	1	2	1
Mackinac										
Macomb	6	3	1	1	2		16		8	2
Manistee	9	1	1	1			4	3		1
Manitou				 						
Marquette	7	4	<u> </u>		 					
Mason	2			 	5		5	1	3	
Mecosta	7	2		 	9		4		8	1
Menominee						1	3		 	
Midland				 		l	l	7		
Missaukee										
Monroe	2	7	4	4	5	1	13		7	1
Montcalm	6		6	1	5		6	8		1
Muskegon	1	4	16	8	10	4	16	1	5	6
Newaygo	_	1	5			•	2	•	2	ľ
Oakland	2	- 	8		8	1		5	8	
Oceana	1		2		2	2	11	3		
Ontonagon	•		-	1	1	1		-	8	
Osceola				1	2	1	5		8	
Ottawa	4		2			1	5	8	1	3
Presque Isle	•				•	1 1			•	•
Saginaw	9		2	1	6		11	4	6	
Sanilac			2	1	1		ł	•	1	
Schoolcraft			•		1 1		5		1	
Shiawassee	5		3	1	4	3	7	2	8	
St. Clair	9		10	9	10	4	23	8	6	1
St. Joseph	5	1	8	1	5		13		4	
Tuscola	2		6		8	8	10	2	6	
Van Buren	9	1	8	5	2	8	17	2	10	2
Washtenaw	9	1	7	2	2	8	8	5	8	1
Wayne	9	1	23	6	1	8		6	11	7
Wexford		l				·	1			

Exhibit E is a new one, given to show certain details which one would not expect under a law which is supposed to provide for the enumeration of births and deaths only which actually occur in this State. It may be supposed that the parents of the children and some member of the family of the decedents enumerated in Exhibit C resided in Michigan at the time the supervisor or assessor made the assessment. Perhaps in an equal number of cases, births or deaths which actually occurred in Michigan failed to be returned because the parents or relatives had removed from the State during the year, more or less, which elapsed thereafter before the visit of the supervisor or assessor.

BIRTHS.

The tables compiled in the State Department, from the returns of births by the county clerks, show that 31,151 children were returned, by supervisors and assessors, as having been born in Michigan in 1874, a decrease of 3,457 from the number returned for 1873. With the exception of 1873, however, the number of births returned for 1874 is considerably larger than for any previous year. The year 1873 seems to have been very exceptional in the large number of births returned, and probably also in those which occurred.

It was stated in the report for 1873 that, according to the system of correction for omissions in the enumeration used by the compiler, the number of births returned for 1873 should be increased by about 30.38 per cent. in order to equal the number of children which were actually born; according to this same system, the number of births returned for 1874 should be increased by about 79.37 per cent. in order to equal the number of children born in Michigan in 1874. This per cent. is probably too large, and the 30.38 per cent. employed for the births in 1873 was probably too small, for the following reasons:

The manner of learning the number and proportion of births omitted for the month of January (from which the corrections for the other months are reached), is to compare the number returned for January with those returned for the preceding month of December, and then increase the number for January so that it shall bear the same relation to the number returned for the last preceding month, as was found, by a study of these statistics in connection with the statistics of the last U.S. Census, to be the probable true relation of the number for December and January, after making allowance for difference in time elapsing between the occurrence and the enumeration of the births. So long as the birth-rate continues about the same, year after year, the application of this system of correction seems to be practicable; but when, as in 1873, the birth-rate is unusually increased, this system of correction tends to make the numbers as corrected too small, and when the birth-rate is actually much decreased, the tendency is to make the per cent. of correction too large. Other influences being the same, an unusually large birth-rate in any given year, will probably be followed in the next year by a smaller than average birth-rate, because an unusually large proportion of women will then have been, and still be nursing children, and consequently not so liable to become pregnant. It is probable that very many more births actually occurred in 1873 than in 1874, and that therefore the per cent. of increase for 1874, estimated according to the usual plan, is too large, because it is based upon an assumed relation between the numbers for December, 1873, and January, 1874.

The following tabular exhibit shows what per cent. of the births which probably occurred were returned, also the per cent. by which the number of births returned must be increased to equal the number which probably occurred, for the years 1871, 1872, 1873, and 1874, and the average for the four years,

according to the compiler's plan of correction for omissions in the enumeration, because of late records.

YEARS.	Per Cent. of Births Beturned.	Per Cent. of Births Added as Correction for Omissions.
1871	70.00	42.86
1872	64.95	43.95
1873	76.72	30.84
1874	55,75	79,87
Av. for 4 Years	66,86	51.63

According to the foregoing tabular exhibit, the average per cent. of births added as a correction for omissions in enumeration for the four years 1871-1874 is 51.63; and if we increase the number of births returned for 1874 by this 51.63 per cent. we obtain 47,234, which is probably a nearer approximation to the number of births which actually occurred in 1874 than would be the number obtained by increasing the births returned by 79.37 per cent. as would be done by strictly adhering to the plan of correction heretofore employed.

The average numbers of births for certain periods of time, including those in unknown month, as returned and as corrected for omissions in the enumeration are as follows:

Periods of time.	Births as returned.	Corrected as per Exhibit A, 4th line.	51.63 per cent.
Per quarter	7,787.75	13,969.25	11,808.50
Per month			
Per week	•	•	•
Per day	85.35	153.09	129.41

Although 51.63 per cent. is probably nearer the actual per cent. by which the births should be increased for 1874 than is 79.37 per cent., in all the following statements of the per cent. of increase for omissions in the enumeration the same system is used as in previous Reports, and which for the births in 1874 increases them by 79.37 per cent.

The relations of the numbers of births in 1874 to the numbers of inhabitants in 1874 as shown by the State Census, are as follows:

SEX.	Inhabitants in 1874 Represented by Births in 1874.	Births as Returned.	for Omissions in	PER CENT. OF BIRTH Births as Beturned.	Births Corrected
Totals	1,325,983	31,151	. 55,834	2.35	4.21
	692,642				
Females	. 633,341	14,819	25,389	2.34	4.01
Unknown		49			

Table I. is the same as for previous years, with the addition of data for 1874. As is the case with each of the preceding years except 1871, the largest number of births is returned for the quarter of the year ending with September, the next largest for the quarter ending with December. It should be remembered, however, that the table states the facts of the births as returned, and that the number of births omitted in the enumeration is greatest in the earlier months of the year.

TABLE 1.—Births by the quarters of the Year, exhibiting the Number and Per Cent. of Totals for the Fears 1868, 1869, 1870, 1871, 1872, 1873, and 1874, according to the Returns.

TOTALS AND MONTHS WITH WHICH	1996.	sć	1966.		1870.	ď	1871.	-1	1872	of	1873.	gd	1874.	,
3	Num. ber.	Per Ct. of Total.	Num.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num. Der.	Per Ct. of Total.	Num- ber.	Per Ot. of Total.	Num. ber.	Per Ct. of Total.	Num. ber.	Per Ct. of Total.
Totals	25,030	100.00	27,003	100.00	26,063	100.00	25,392	100,00	27,993	100,00	84,608	100.00	81,151	100.00
March	6,501	21.98	6,416	19.98	5,440	20 40	5,412	20.82	5,868	28.08	7,908	28.08	6,315	20.27
Jabe	₽ 6,909	23.61	6,848	22.42	6,401	24.34	5,843	\$	6,784	24.23	8, 104	23.43	7,608	24.43
September	6,924	27.67	7,883	8	7,500	28.19	7,23	27.73	7,948	28.37	899'6	28.01	8,810	28.38
December	6,028	38.45	7,381	27.22	7,100	88	7,446	3	7,370	26.33	9,633	27.54	8,573	36.88
Unknown	22	gi	8	ş.	321	3.	8	8	88	9.	٤	ક્ર	\$	1.
Average b	6,253	8	6,774	98,00	6,865	25,00	967'9	8	986,9	8	8,653	8	7,788	25.00

a See notes to month of April and to unknown month in Table II. b The number in unknown quarter of year included.

the greatest numbers were returned as having occurred in August; and for six years the least numbers were returned as having occurred in January. For some purposes, comparisons by means of this table are useful, but if the reader wishes to study the relations of the several months with reference to the births which probably occurred in each month, the Table II. shows the number of births, by months, and the per cent. of total, for each of the years 1868-1874, according to the returns, the months being arranged in order, those having the greatest number first. For four of the seven years last line in Exhibit 3 should be examined.

TABLE II.—Births during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, according to the Returns, exhibiting the Number and Per Cent. of Total, by Months arranged in Order by Number, Months having the greatest number first.

		1968.			1969.			1870.			1871.			1872			1873			1874.	1
_																					1
	Mo's.	Mum. Per.	Per Ct. of Total	₩o.₽	Nam.	Per Ct. of Total.	Mo's.	Nam Ver.	Per Ct. of Total.	Mo'a.	Num. Der.	Per Ct. of Total.	Mo's.	Nam. Der.	Per Ct. of Total.	Mo'a.	Num- ber.	Per Ct. of Total.	Ko's.	Nam. ber.	PerCt. of Total.
ORD	Total	25,030	100,00	Total	27,003	100.00	Total	28,	100.00	Total	25,992	100,00	Total	27,983	100,00	Total	809'fs	100.00	Total	81,151	100.00
	Aug	2,399	9.58	Aug.	2,73	10.08	Sept	2,602	8.73	Dec.	2,639	10, 15	Aug.	2,817	10.06	Sept.	3,436	9.83	Δug.	3,077	9.88
80	Sopt.	2,362	9.41	Sept.	2,681	9.80	Aug.	2,539	8.6	Ang.	2,536	9,73	Sept.	2,713	8.6	Dec.	3,351	9.68	Sept	2,972	9.54
3 Dec.	<u>ي</u>	2,283	9.13	Dec	2,512	9.27	Oct	2,480	9.30	Sept.	2,518	8	Dec.	2,585	23.	Aug.	8,342	9.66	Dec.	2,921	9.38
<u>3</u>	Oet.	2,246	8.97	Oct	2,508	9.23	Dec.	2,387	8.8	Oct	2,478	3.6	Set.	2,438	8.67	Oct.	3,165	9.15	July.	2,761	888
5 July.		2,163	20.00	July.	2,471	9.13	July.	9,330	8.77	Nov.	2,339	86	July.	2,413	80 %	Nov.	3,017	8.72	0et	87,6	8.73
6 Nov.	vc	2,000	88	Nov.	2,361	8.71	May.	2,275	8.53	July.	2,171	33	Nov.	2,357	8.43	July.	2,915	8.43	NOV.	2,726	8.75
7 March	arch Fich	2,043	8.16	May.	2,221	8.19	Nov.	9,233	8.37	May.	2,046	7.87	May-	2,281	8.15	March	2,847	83.	May.	2,586	8.30
8 May	By.	2,037	8 10	June	2,085	7.88	Jane	2,140	80.00	March	1,967	197	April	2,253	8.06	May.	2,734	8.07	June	2,538	8.21
9 June	ıne	1,944	7.76	April	2,043	7.53	March	9,039	7.87	April	1,860	7.30	June	2,250	808	April	1112,2	7.83	April	191'6	7.91
10 Aprila	all's	1,938	7.70	March	2,005	7.40	April	9,076	7.78	June	1,808	7.30	Karch	2,195	1.84	June	2,599	7.51	March	2,462	7.90
Il Feb.	. p.	1,739	7.03	Feb.	1,752	848	Feb.	1,737	6.51	Jan	1,737	8	Feb.	1,889	6,78	Feb.	2,249	6.50	Feb.	1,854	6.27
12 Jan		1,600	8	Jan.	1,639	£11	Jan.	1,00,1	6.01	Feb.	1,688	6.49	Jan	1,774	20.00	Jan	2,112	6.10	Jan	1,894	£ 10
5	Unk. b	8	શં	Unk.	8	75.	Unk.	133	3.	Unk.	8	şį	Unk.	22	9.	Unk.	٤	ક્રં	Unk.	\$	Ŧ.
<u> </u>	Ave. 2,083.00	083.00	8.8	AV6.c	2,257.75	8.33	A76.º	2,221.91	8.8	AV&c	3,166.00	8.33	AV6.c	2,333,75	85 85	AV6.c	Ave. 2,884.00	88	AV6.c	2,505.91	× 33

a The number of births in April, 1969, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days. Thirty days at the same rate would give the number stated in this table.

This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the should number stated in the Second Report, which was for the remaining nine months of the year 1988.

Including unknown month.

EXHIBIT A.—Births in Michigan during the year 1874, as Returned, as Corrected for Omissions in Enumerating, the Same Equalized for Increase of Population during the year covered by the Returns, and the Births as thus Corrected and Equalized for the several months, Equalized for months of a uniform length of 30.44 Days; also indicating some of the steps by which these results have been reached (Still-births and Children of unknown Sex included).

						K O	MONTES, 1874.	1874					
100	TOTAL	Jan.	Feb.	Mar.	April. May. June. July. Aug.	May.	Tune.	July.		Sept.	Oct	Nov.	Dec.
Births as returned by registration officers. Per cent, of births to be added for correction for time elapsing before enumeration	a\$1,106	1,800	1,964	100.91	9, 44 102.08	96.93	9.38 36.38	9,78 1 78.61	8,077 70.08	\$,978 62.81	2,736 54.96	2,78 47.11	2,92 120,92 130,93
Number of births to be added for above correction	94,690	2,386	1,30	2,708	2,515	2,436	2,200	9,108	2,174	1,867	1,498	1,284	1,147
Births, if enumerated in months of occurrence	86,798	8,	8,	5,168	4,93	5,08	4,767	8	5,83	2	82,	4,010	4,068
Per cent, of births to be added to equalize them to population at close of year		15	88	2	- S	28	9.48	2 2	1.78	141	1.08	Ľ.	, si
ze them to population at close of year	1,290	8	호	181	191	171	711	8	33	8	3	\$	=
Births, as corrected, equalized to population at close of year	57,086	4,464	9,4	5,340	6,136	5,163	4,88,	5,082	6,345	4,907	4,980	4,088	4,082
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform longth	23 +	8 5	+ 244 + 386 +	25. 56	25.+	8 8	+ 4.4	8 6	92	3 %	1 2 1	+ + 2 8	2 27
Births, corrected and equalized, equalized to months of uniform length	67,139 4,358 4,804	4,368		5,953	6,211	6,070	4,986	4,941 5,946	5,946		4,979 4,192	4,067	4,008

. Excluding 45 in unknown month.

occurred. This correction is made necessary by omissions in the enumeration of births, which omissions are doubtless caused by the imperfections in our present law, which postpones the time of making the enumeration so long after the time They indicate some of the steps by which the number of births returned is increased to equal the number which probably Exhibits A, B, C, D, and 3 are similar in character to those in the last Report, though confined to the year 1874. when the births occur.

This system of correction has been explained at greater length in previous Reports.

EXHIBIT B.—Births of Males in Michigan during the year 1874, as Returned, as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

						X	MONTHS, 1874.	1874					1
		Jan.	Feb.	Mar.	April	May.	June. July.	July.	3ny	Sept	0ct	Nov.	Dec
Births of Males as returned by registration officers. Per cent. of Birhs to be added for correction for time elapsing before enumeration. Number of births to be added for above correction.	16,260	9963 137.62	1,034	1,296 190.42 1,563	1,034 1,296 1,301 1,336 139,02 130,42 111.82 103.22 1,334 1,563 1,466 1,379	1,336	1,331	1,483 80.02 1,275	1,587	1,544	1,436	1,388 51.62 716	1,540
Births of Males if Enumerated in months of occurrence	30,422	2,380	2,368	88,	2,736	2,715	2,380	2,757	9,816	2,607	1,88	10,10	2,303
Per cent. of births to be added to equalize them to population at close year. Births to be added to equalize them to population at close of year	80,	83	8.88	3.51	8.16	2.81	3 2	24 88	1,78	1.41	2, 2,	<u> </u>	%
Births of Males as corrected, equalized to population at close of year.	31,131	2,439	2,430	2,961	2,843	2,79]	2,654	2,815	9,886	2,644	2,308	2,119	2,211
see and hundredths by which the months should be increased or ished to equalize them to months of uniform length. To furths added or subtracted to equalize them to months of the length.	+ 33	8 #	+ 2.44	 % %	3. 8	8 5	1 8	8 2	8 8	+ + 2 8	8 4	4 + +	8 3
Males corrected and equalized, equalized to months of uni-	81,18	2,415 2,673		2,908	8	9,746	88,	2,764 2,814		88,	2,367	81,4	2,171

· Excluding 23 in unknown month.

EXHIBIT C.—Births of Females in Michigan daring the Year 1874, as Returned, as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Births

-						Мож	Момтнв, 1874.	7.				
	Jorak	Jan. Fe	Fob. Ma	Mar. Apr	X	. Jan	- July	April. May. June. July. Aug.	Sept	Oct	Nor.	Dea
Biths of Females as returned by registration officers	*14,802	§) % 1 '1	1,160 1,162	1,247	1,224	1,275	5 1,486	1,426	1,296	1,333	1,873
	<u>n</u>	118.14 100	106.07 89	90.00	88,96	96 77.79	9 70.72	2 63.63	26.58	49.51	42.44	35.37
Number of Births to be added for above correction	10,570	1,024	978	1,148 1,008	3,068		962 902	866	807	179	8	\$
Births of Females if enumerated in months of occurrence	25,872	1,929,1,	1,888	2,306 2,230	908,4	2,176	8 2,177	7 2,482	9,28	1,986	1,890	1,859
Per cent, of Births to be added to equalize them to population at close of year.		12.	88	\$ 198 \$ 201	3.16 2.81	21 646	8 211	1.78	1.1	1.08	12.	%
Births to be added to equalize them to population at close of year	38		25	16	R	8	*	46	=	젊	5	1
Births of Females as corrected, equalized to population at close of year.	26,967	3,010	1,86,1	2,389 2,300	2,370	9,230	2,223	3 2,475	2,364	1,967	1,912	1,866
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.		86 +2.44 86 + 171	·	35 34. + 34. +	8 3	+ +	1 1 8 2 9 1 1 1	1 1 1 2 3	+ +	8 8	+ +	8 %
Births of Females corrected and equalized, equalized to months of uniform length	25,979 1,974	974	2,132 2,346	46 2,334	728,2	2,263	2,188		2,207	2,429 2,297 1,922	1,940	1,833
								ĺ				

· Excluding 17 in unknown month.

EXHIBIT D.—Births of Males and Females in Michigan during the Year 1874, Corrected for Omissions in Enumerating, and, as thus Corrected, Equalized to Months of uniform length; also, the total Births of Both Sexes as thus Corrected and Equalized. Births of Children of unknown Sex not included.

						X	MONTHS, 1874.	1874					
	101	Jen.	Feb	Mer.	Apr. May. June. July. Aug.	× ×	- de la	Taly.		Sept.	支	Nov.	Ş.
Births of Males, if enumerated in months of occurrence. Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize the months to a uniform length.	* 30,422	1,360 2,368 166 + 2.44 -43 + 206	88 4 +	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	% + + % ± 4	37.4 38 84	8 + +	15 % G	2,836 1.98 1.08 1.05	2, 607 + . + . + . 88	9, 98 9, 1 86, 1 14, 1	9, + + 2, 4, 18	86. - 86. - 86. -
Births of Malos, corrected and equalized to months of uniform length	30,449	2,817	2,574	8,8	8,	8,	98	2,707	287,2	29.0	42,2	9,133	9,168
Biths of Females, if enumerated in months of occurrence. Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length Number of biths added or subtracted to equalize the months to a uniform length.	+ 25,379	8 8 3	1,929 1,848 56 + 2.44 -35 + 165	8 8 1 1 8 8 2	8 4 8	8 2 3 8 2 3	2. + + 2. ± 8	2 	9 8 8 2	2 + + 2 2 3	1,936 1,536 1,536	88.1 + + 88.2 ± 82	1,866 1,56
Births of Females, corrected and equalized to months of uniform length. Births of Males, corrected and equalized to months of uniform length	25,392	1,894	2,068	8 8 8	9, 9, 86, 1, 86, 1,	9, 9, 88, 4,	88 4	9, 138 107, 9	9. 9. 88. 9. 36. 9.	88. 9. 38. 5.	1,901	1,927	1,825
Births of Males and of Females, corrected and equalized to months of uniform length	55,841	4,211 4,627 5,075 5,059 4,939	4,627	5,075	5,008	4,98	4,836	4,845	4,836 4,845 5,153 4,911 4,145 4,062	4,911	4,145	4,062	86. 88.

. Excluding births in unknown month.

EXHIBIT 3.—Births in Michigan during the year 1874, Corrected for Omissions in Enumeration and Equalized for Months of a uniform length of 30.44 days. (Still-births and Children of unknown Sex included.)

							Момтнв, 1874.	18, 1874					
		Jep.	Feb.	Mar.	April.	May.	June	July.	Jan. Feb. Mar. April, May. Juna, July. Aug. Sopt. Oct. Nov. Dec.	Bept.	ਝ	Nov.	Dec
Births, if enumerated in months of occurrence	a55,796	3	33,	5,168	4,978	5,038	4,767	4,938	5,251	8	4,294	4,010	4,068
Days and hundredthe by which the months should be increased or diminished to equalize them to months of uniform length		25	12	8	3:	8	1 7	3	2.56 + 2.44 - 36 - 444 - 36 - 36 - 444 - 36 - 36	3:	8	#:	28
Number of births added or subtracted to equalize them to months of uni- form length.	3	+50 -77 +371	+ 371	\$	5 2 +	-85 +78 -91 +70	<u>و</u> +	88	-89 -46 +71 -76 +50	+21	9/-	25 +	55
Births, corrected and equalized to months of uniform length	55,846 4,307 4,036 5,075 5,062 4,931 4,887 4,840 5,136 4,910 4,146 4,009 8,905	4,907	989,	5,075	5,002	4,931	4,887	4,840	5,156	4,910	4,148	4,080	8,996

. Excluding births in unknown month.

Table III. enables us to study the relation between the number of births returned and the number of marriages returned as having been solemnized in the months in which the conceptions of the births probably occurred. The proposition is made that more than an average number of conceptions occurred in months when more than an average number of marriages were solemnized, and less than an average number of conceptions occurred in months when less than an average number of marriages were solemnized. To this proposition there are six exceptions in the table for each of the years 1872, 1873, and 1874, and the conception months of January, February, and March are exceptional in each of these years. The subject is studied further in exhibit E, in Births, immediately following, and also in Diagram No. 1, in the first part of this Volume, relating to Births, Marriages, and Deaths.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1874, and the Marriages solemnized in the Months of the Years 1873 and 1874 in which the conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

BIRTHS FOR 1874, EQUALIZED NU	TO MON'S	THE OF 80.44 DAYS EACH, IN OR BATEST FIRST.	RDER BY	No. of Mar- riages from April, 1878,
Births.4		Conceptions.		to March, 1874, equal- ized to Months of
Year and Months.	Number.	Months.	Year.	80.44 days each. b
Year	31,100			11,932
August	3,021	November	1873	1,162
September	3,016	December	1878	1,082
December	2,868	March	1874	920
November	2,766	February	1874	1,020
July	2,711	October	1873	1,152
October	2,677	Januaryc	1874	940
June	2,595	September	1873	1,047
Average	2,592			994
May	2,539	August	1878	885
April	2,500	July	1873	1,091
March	2,418	June	1873	,895
February	2,124	May	1873	884
January	1,865	April	1873	914

^{*} Excluding 45 births in unknown month, and 6 lost in equalizing.

b Corrected, for additional returns, up to March 15, 1876.

c Exceptions to statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized.

Exhibit E is similar to table III., but in the exhibit the number of births is corrected for omissions in the enumeration, and equalized to months of uniform length. The number of exceptions to the proposition in foot-note o is the same as in Table III., but they appear for different months, with the exception of March.

EXHIBIT E.—The Relation between the Births in Michigan during the Year 1874, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1873 and 1874, in which the conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

BIRTHS FOR 1874, CORRECTED AS 12ED TO MONTHS OF UNIFORM	IF ENUM LENGTH,	ERATED IN MONTHS OF OCCUREN IN ORDER BY NUMBER, GREATEST	CE, EQUAL-	Number of Marriages from April, '73 to M'rch.
Births.		CONCEPTIONS.		'74, equalized to months of
Year and Months.	Number.	Months.	Year.	30.44 days
Year	55,846			11,932
August	5, 156	November	1878	1,162
March	5,075	June	1873	895
April	5,052	July	1873	1,091
May	4,931	August	1878	825
September	4,910	Decemberc	1873	1,082
July	4,840	October	1873	1,152
June	4,837	September	1873	1,047
Average	4,653			994
February	4,626	May	1878	884
January	4,207	Aprile	1873	914
October	4,148	January	1874	940
November	4,069	February	1874	1,020
December	3,995	March	1874	920

^{*}Unknown month excluded.

b Corrected, for additional returns, up to March 15, 1876.

Exceptions to statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in mouths in which less than an average number of marriages were solemnized.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been Born in Michigan during the Year, and in each Month of the Year ending December 31, 1874. (Still-births included.)

141.00							1	Mon	rhs,	1874.					
AND COUNTIES.	SEX.	YEAR, 1874.	January.	February.	March.	April.	May.	Juna,	July.	August.	September.	October.	November.	December.	Unknown.
State*	Total Males Females Unknown Excess of Males.	31,151 16,283 14,819 49 1,464	1899 993 905 1 88	1954 1034 916 4 118		2464 1301 1162 1 139		2558 1331 1224 3 107	7000	3077 1587 1486 4 101	2972 1544 1426 2 118	2726 1426 1295 5 131	2726 1388 1333 5 55	2921 1540 1373 8 167	45 21 17 5
Alcona	Total Males Females Unknown	33 18 13 2	1	1	1	2 2	3 1	3 1 2	4	3 1 2	2	2	3 1 1	3 1 2	
Allegan	Total Males	697 364 333	41 22 19	49 23 26	60 32 28	60 32 28	52 30 22	54 32 22	48 22 26	78 33 45		36	29 28	63 35 28	
Alpenab	Females	108 55 53	5	3 2 1	5 6	12 5 7	5 2	12 5 7	2 5	13 7 6	5	3	10 6 4	11 9 2	-
Antrim	Total	104 59 45	2 2	1 2	5 9	10	6	10	10 2	7 7	10 2 8	8	2	8 3	
Baraga	Males	46 34 12	5	2	2	6	5 2	1	3 2	4 2	2	1	1	2	
Barry	Total Males Females Unknown	522 280 241	42 20 22	9 15	47 28 18	29 14 15	35 21 14	51 25 26	54 31 23	65 31 34	56 35 21	23	11.78	18 16	
Bay	Total Males	960 502 458	69 39 30	48 27 21	84 39 45	92 54 38	68 33 35	79 44 35	95 51 44	83 50 35	87 36 51	70 30 40	100	98 53 45	
Benzie	Males	76 32 44		1 3	8 1 7	8 3 5	1 3	2 2	7 2 5	10 3 7	2 2	6 3	6 2	11 8 3	1

Except of counties and townships not represented by returns of birth
 No returns from township of Ossineke.
 No returns from township of Clayton.

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							1	MONT	rhs,	1874					
COUNTIES.	SEX.	Year, 1874.	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	541	89	21	51	36	66	47	36	54	45	61	41	44	
Berrien	Males	276	22	10	19	20	85	20	24	28	21	40	18	19	
	Females	265	17	31	82	36	81	27	12	26	24	21	23	25	ļ
ı	Total	498	28	81	82	47	45	43	46	41	52	36	.46	51	ļ
	Males	278	17	21	17	29	20	27	24	28	28	20	26	26	
Branch	Females	219	11	10	34	18	25	16	22	18	94]6	20	25	ļ
	Unknown	1			1						•				 .
!	Total	550	85	28	44	89	40	49	52	61	48	58	47	49	l
Calhoun	Males	298	28	11	21	92	22	29	27	32	28	82	28	20	٤
1	Females	252	12	17	23	17	18	20	25	29	20	21	19	29	1
•	Total	822	28	22	25	28	28	22	81	28	84	30	82	29	 -
Cass	Males	174	11	14	12	11	8	12	12	18	28	18	16	19	 -
	Females	148	12	8	18	19	15	10	19	10	n	12	16	10	 -
!	Total	64	6	6	4	8	12	7	5	4	7	8	2	5	ļ
Charlevoix	Males	87	2	4	2	1	6	6	4	2	8	2	2	8	
	Females	27	4	2	2	2	6	1	1	2	4	1		2	ļ
1	Total	105	18	33	10	8	11	6	9	8	5	5	7	11] :
Cheboygan	Males	57	7	5	5	4	6	8	5	4	8	8	5	6] 1
	Females	48	6	6	5	4	5	8	4	4	2	2	2	5	
!	Total	78	17	11	8	5	4	6	5	6	4	2	1	4	 -
Chippewa	Males	88	7	6	2	8	2	8	1	3	2	2	1	1	
į	Females	40	10	5	6	2	2	8	4	8	2			8	 -
!	Total	40	2	2		4	5	5	6	8	3	4	8	8	
Clare	Males	23	1	1		2	4	2	4	8	1	1	2	2	
İ	Females	17	1	1		2	1	8	2		2	8	1	1	
1	Total	515	26	30	47	46	50	50	47	40	48	43	89	45	
Clinton	Males	272	17	15	27	23	29	25	19	28	21	28	21	29	
V11M4V41	Females	242	9	14	20	23	30	25	26	17	22	20	18	16	
1	Unknown	1		1				••••		••••					
!	Total	188	10	10	8	14	10	14	10	15	18	6	11	12	
Deltab	Males	64	6	8	4	5	4	7	7	5	6	8	4	5	
	Females	69	4	2	4	9	6	7	8	10	7	3	7	7	 -
	Total	540	40	· 2 5	45	\$ 8	44	48	87	61	58	46	43	55	
Eaton	Males	286	20	18	24	19	90	27	21	32	32	26	19	88	
250 TV 11	Females	251	90	12	21	19	24	20	16	28	26	20	23	22	
	Unknown	8						1		1			1		ļ

[•] No returns from township of Warner. • No returns from townships of Masonville and Sack Bay-

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

	1		1					Mon	THS,	1874	•				
COUNTIES.	SEX.	YEAR, 1874.	January.	February.	March.	April.	May.	June.	July.	Angust	September.	October.	November.	December.	Unknown.
	Total	39		2	6	1	3	2	2	6	4	5	2	6	
Emmet	Males	20		1	2	1	2	2		3	2	3	2	2	
	Females	19		1	4		1		2	3	2	2		4	
	Total	564	21	38	37	45	43	40	57	50	53	60	57	63	
at 100 /	Males	317	12	24	22	22	28	25	27	28	29	35	28	37	
Genesee	Females	246	9	14	15	23	14	15	30	22	24	25	29	26	
	Unknown	1					1				****				
	Total	5						1	1		1	1		1	
Gladwin	Males	4						1			1	1		1	
	Females	1							1						
	Total	97	7	10	9	11	8	12	10	4	6	4	7	9	
Grand Traverse.		58	2	4	4	6	5	8	7	4	4	3	5	6	1
	Females	39	5	6	5	5	3	4	3		2	1	2	3	
	Total	376	18	26	31	29	34	36	33	32	31	29	35	42	
Gratiot	Males	205	8	15	14	17	21	24	24	10	15	16	21	20	
	Females	171	10	11	17	12	13	12	9	99	16	13	14	22	
	Total	444	33	32	38	35	32	29	38	47	34	43	42	40	1
	Males	225	13	16	24	22	18	12	18	19	11	22	23	26	1
Hillsdale	Females	218	20	16	14	13	14	17	19	28	23	21	19	14	
	Unknown	1							1						
	Total	798	43	48	63	63	73	60	74	58	64	76	86	87	
	Males	418	27	92	38	33	30	32	45	26	31	41	44	48	
Houghton	Females	379	16	26	25	30	43	28	29	32	33	35	42	39	
	Unknown	1				16									,
	Total	430	23	32	40	23	39	34	40	43	41	42	31	42	
	Males	243	12	20	20	13	22	10	24	30	23	17	19	24	
Huronb	Females	186	11	11	20	10	17	15	16	13	18	25	12	18	
	Unknown	1		1								1		0.0	
	Total	583		31	36	50	51	41	43	59	80	53	67	44	***
	Males	292	14	20	19	23	29	23	21	26	36	28	36	17	
ingham	Females	290	14	11	17	27	22	18	22	32	44	25	31	27	****
	Unknown	1			**			13		1	1.55	20	91	+ = 1	
	Total	505	33	27	39	50	56	47	48	56	57	73	47	50	19
onia	Males	310	16	8	24	24	26	21	25	32	32	37	30	29	6
		285		19	/ -	26	30	26	23	10.5	12.7	(0)	100	100	
,	Females	200	17	13	15	20	30	20	23	24	25	36	17	21	6

No returns from township of Whitewater.
 No returns from townships of Bloomfeld and White Book.

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

-6								Mon	THS,	1874					
COUNTIES.	SEX.	YEAR, 1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October,	November.	December.	Unknown.
	Total	80	2	5	7	6	7	4	8	9	3	14	6	9	
en the second	Males	44		3	5	3	6	1	5	4	2	8	3	4	
Iosco	Females	34	2	2	2	2	1	3	3	5	1	6	3	4	
	Unknown	2				1								1	
	Total	123	9	8	11	14	7	15	6	9	14	9	13	8	
Isabellab	Males	67	5	7	8	6	3	9	5	3	5	5	7	4	
	Females	56	4	1	3	8	4	6	1	6	9	4	6	4	
	Tota1	713	40	34	57	56	58	66	74	77	65	69	58	59	
	Males	346	15	21	20	33	27	32	40	37	34	36	23	28	
Jackson	Females	366	25	13	36	23	31	34	34	40	31	53	35	31	
	Unknown	1			1										
	Total	632	48	51	49	53	53	47	55	59	58	64	41	52	
	Males	309	24	25	26	24	18	29	27	23	30	38	16	27	
Kalamazoo	Females	320	24	26	23	29	34	18	28	36	28	25	25	24	
	Unknown	3					1					1		1	
	Total	65	6	6	4	6	12	5	6	4	7	3	4	2	
Kalkaska	Males	37	2	1	3	4	8	3	4	3	5	1	3		
	Females	28	4	5	1	2	4	2	2	1	2	9	1	2	
	Total	1,528	83	113	110	128	109	132	138	133	155	145	132	150	
	Males	788	33	56	61	65	60	62	79	63	89	77	68	75	
Kent	Females	735	49	57	49	63	48	70	59	70	65	68	63	74	-
JAC 13	Unknown	5	1				1				1		1	1	
	Total	214	21	17	21	12	16	25	16	28	21	18	14	5	
Keweenaw	Males	121	9	11	12	5	8	16	11	13	13	10	9	4	
	Females	93	12	6	9	7	8	9	5	15	8	8	5	1	
	Total	50	2		6	3	7	12	6	5	6	5	2	5	
Lake	Males	25			3	1	3	6	4		3	2		3	2.5
	Females	34	2		3	2	4	6	2	5	3	3	2	2	
	Total	491	25	30	44	40	39	41	51	55	56	36	39	35	
	Males	266	18	18	27	23	23	19	25	28	27	19	19	20	
Lapeer	Females	224	7	12	17	17	16	22	25	27	29	17	20	15	
	Unknown	1							1	. 61					
	Total	112	7	9	10	5	13	9	12	6	10	8	11	12	
Leelanaw	Males	56	4	4	7	4	6	5	7	4	4	1	4	6	
	Females	56	3	5	3	1	7	4	5	2	6	7	7	6	
	(- Callarous	30		- "				-		11.5					•••

No returns from township of Baidwin.
 No returns from townships of Sherman and Union.

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

								Mon	тн8,	1874					
COUNTIES.	SEX.	YEAR, 1874.	January.	February.	March.	April,	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
7	Total	723	54	25	36	72	63	69	63	69	62	66	75	69	
Lenawee	Males	385	31	12	22	44	39	29	27	37	39	32	33	40	
	Females	338	23	13	14	28	24	40	36	32	23	34	42	29	
	Total	406	25	40	22	37	36	30	27	43	42	23	40	41	
Livingston	Males	187	12	22	7	17	19	16	13	16	19	10	15	21	
	Females	219	13	18	15	20	17	14	14	27	23	13	25	20	
1	Total	48	5	2	4	1	3	4	3	7	6	2	3	6	
	Males	30	4		3	1	2	3	1	4	5	1	3	3	
Mackinac	Females	17	1	2	1		1	1	2	3	1	1		2	
	Unknown	1												1	
	Total	608	28	40	47	49	55	52	47	74	49	67	51	49	
	Males	319	14	21	27	19	26	30	26	44	21	32	26	33	
Macomb	Females	288	14	19	20	30	29	22	21	30	27	35	25	16	
	Unknown	1									1				
	Total	297	26	23	25	31	32	16	29	20	31	22	16	26	
Manisteea	Males	145	11	10	14	13	19	7	11	8	22	9	8	13	
	Females	152	15	13	11	18	13	9	18	12	9	13	8	13	
	Total	30	2		5	1	1	5	4	5	3		1	3	
Manitou	Males	24	1		4	1	1	2	1	2	1			1	
	Females	16	1		1			3	3	3	2		1	2	
	Total	891	56	54	83	81	73	73	65	82	55	77	81	111	
Marquette	Males	453	31	28	41	48	39	33	35	48	26	34	39	51	
	Females	438	25	26	42	33	34	40	30	34	29	43	42	60	
	Total	140	8	6	15	16	11	14	8	13	20	12	10	7	
Masonb	Males	68	4	3	7	8	5	7	3	6	12	6	4	3	
	Females	72	4	3	8	8	6	7	5	7	8	6	6	4	
1	Total	268	13	10	17	29	19	23	33	29	23	22	33	17	
Mecosta	Males	134	7	5	7	12	12	11	13	15	14	6	19	13	
	Females	134	6	5	10	17	7	12	20	14	9	16	14	4	
1	Total	11	2		1	2	1		2	1		1		1	
Menominee	Males	4			1		1		1					1	
	Females	7	2			2			1	1		1			
	Total	158	9	8	11	12	16	5	15	21	19	14	14	14	
	Males	81	5	5	8	8	4	1	9	11	6	11	5	8	
Midlande	Females	76	4	3	3	4	12	4	6	10	13	3	9	5	
	Unknown	1													-2-2

No returns from townships of Arcadia ass
 No returns from townships of Hamiin, Lie
 No returns from township of Mt. Hayle

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

		1					M	ONT	118, l	874.					
COUNTIES.	Sex.	Year, 1874.	January.	February.	March.	Aprill.	May.	Jane,	July.	August.	September,	October,	November.	December.	Unknown.
	(Total	25	1	1			4	5	8	5		2	1	3	
Missaukee	Males	18	1	1			3	8	8	4		2		1	
	Females	7					1	2		1			1	2	
	[Total	771	39	45	59	68	65	53	78	78	86	67	56	76	
Monroe	Males	396	18	26	34	34	32	23	40	42	44	37	20	35	
HORIOE	Females	382	21	19	25	34	33	30	38	35	42	29	36	40	
	Unknown	3				****				1		1		1	-
	[Total	413	9	28	31	43	40	52	33	35	42	29	42	29	
Montealm	Males	223	5	19	19	27	20	27	15	16	26	15	20	14	
MULICAIM	Females	188	4	9	12	16	20	23	18	19	16	14	22	15	
	Unknown	2						2							
	[Total	471	32	25	38	26	43	38	46	48	45	39	47	43	
Muskegon	Males	241	22	13	16	9	20	19	24	26	27	16	27	21	
muskegon	Females	229	10	12	21	17	23	19	22	22	18	23	20	22	
	Unknown	1			1										,.
	[Total	160	6	14	10	13	18	6	17	17	15	15	16	19	
	Males	83	4	5	6	6	8	4	11	6	4	9	9	11	
Newaygo	Females	82	2	9	4	7	10	2	6	11	11	6	7	7	
	Unknown	1												1	
	[Total	552	36	26	55	54	51	41	49	44	53	46	41	55	
Oakland	Males	276	20	13	30	37	25	17	21	21	26	21	18	24	
	Fomales	276	16	13	25	17	26	24	25	23	27	25	23	31	
	Total	249	8	15	15	22	18	34	15	33	24	24	16	25	
Oceana	. Males	125	6	8	5	8	7	18	7	19	11	16	8	13	
	Females	124	3	7	10	14	11	16	8	14	13	8	8	12	
	Total	91	9	13	10	6	11	13	5	5	3	1	6	9	
Ontonagon	. Males	45	8	8	3	4	3	6	2	2	1		3	5	
	Females	46	1	5	7	2	8	7	3	3	2	1	3	4	
	{ Total	210	12	10	16	18	26	16	26	20	21	18	15	12	
Osceola	. Mules	109	7	6	9	10	14	9	14	12	8	7	8	5	-
	Females	101	5	4	7	8	12	7	12	8	13	11	7	7	
	Total	872	54	52	70	72	77	64	69	89	80	80	83	80	
Ottawa	. Males	467	26	22	43	38	45	31	41	43	46	40	42	48	
	Females	405	29	30	27	84	32	33	28	46	24	40	41	32	
	[Total	25	3		1 1		4	2		5	2	1	1	2	
Presque Isle	⊌ Males	10	3		1		3)	2				
-	Females	15					1	2		4		1	1	2	

No returns from township of Brooks.
 No returns from townships of Presque Isle and Rogers.

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							1	Mon.	TII8,	1874.					
COUNTIES.	SEx.	YEAR, 1874.	January.	February.	March.	April.	May.	June.	July.	Angust	September.	Octuber.	November.	December.	Unknown.
	f Total	1,355	94	86	115	109	96	103	128	137	129	128	101	128	1
	Malos	710	57	44	61	57	44	56	73	71	63	63	48	72	1
Saginaw	Females	643	37	42	54	52	52	47	55	65	66	64	53	56	
	Unknown	2								1		1			
	[Total	520	24	36	49	48	44	50	42	50	55	41	31	50	
anilac	Males	294	12	19	30	26	28	31	20	34	26	24	19	25	
	Females	226	12	17	19	22	16	19	22	16	29	17	12	25	
	[Total	49	4	7	4	9	2		5	2	4	3	4	5	
chooleraft	Males	29	2	6	2	6	1		2	1	2	2	4	1	
	Females	20	2	1	2	3	1		3	1	2	1		4	
	[Total	453	24	29	30	31	36	43	42	59	44	34	47	-83	1
hiawassoo	Males	230	8	13	13	16	20	28	28	30	20	19	24	16	
	Females	223	16	16	17	15	16	15	10	29	24	15	23	17	1
	[Total	1,014	46	70	87	72	86	64	95	107	111	97	94	85	
	Males	526	21	41	44	35	47	29	59	63	43	54	48	42	
t. Clair	Females	486	25	29	43	37	39	35	86	44	68	42	46	42	
	Unknown	2										1		1	
	Total	440	18	26	30	42	30	44	31	45	46	35	34	59	
t. Joseph	Males	242	13	14	18	28	17	22	21	22	20	17	15	85	
	Females	198	5	12	12	14	13	22	10	23	26	18	19	24	
	[Total	427	25	20	28	29	43	44	39	51	38	29	55	36	
Cuscola		226	9	8	13	15	24	26	21	24	24	13	32	17	
	Females	201	6	12	15	14	19	18	18	27	14	16	23	19	
	[Total	516	28	38	42	34	38	47	46	68	57	42	42	33	,
an Buren	Males	272	12	17	18	18	21	22	27	33	38	28	22	16	
	Females	244	16	21	24	16	17	25	19	35	19	14	20	17	1
	[Total	666	34	46	52	39	58	63	69	67	59	56	55	66	1
Washtenaw	Males	337	13	23	31	24	26	28	33	37	81	26	30	34	1
	Females	329	21	23	21	15	32	35	36	30	28	30	25	32	1
	[Total	4,354	313	308	334	280	318	311	385	407	431	372	426	463	
4	Males	2,289	166	172	174	143	155	167	208	220	230	197	217	238	2
Wayno	Females	2,055	147	135	160	137	163	144	175	187	201	174	207	225	
	Unknown	10		1					2			1	2		1
	[Total	60	3	1	7	4	5	5	7	6	2	4	13	3	1
Wexford	4	32		1	3	1	3	-3	3		1	3	8		-/-
	Females	28	8		1	1							.6		1

No returns from townships of Clam Let

Table V. gives valuable evidence of the birth-rate, and of the proportions of the two sexes among children born in Michigan, to the different races of people. The table would be a little more satisfactory if it employed the numbers of inhabitants of each race, in 1874—the year in which the births occurred; but the State Census which was taken in 1874 is not useful for this purpose, as it did not include such statistics. From the column in this table headed "Per cent. of children born to inhabitants," it appears that the birth-rate was greater than the average among the Indians, while among the white inhabitants it was a little less than the average. The distinctions between the black and mulatto are not usually accurately made, and for this reason the black and mulatto should be studied together. The birth-rate among the black and mulatto inhabitants, which includes all of African descent, is much smaller than the average for all races.

The per cent. of children to women aged 18 to 45 years—child-bearing ages—is also large among the Indians, small among those of the African race, and

slightly smaller than the average of all among the white inhabitants.

For each of the years 1870-1874, the birth-rate was greatest among the Indians, and least among the African race ("Black and Mulatto"); and for each of the above-mentioned years the proportion of female children was greatest among the Indians, and the proportion of males was greatest among the African race. Apparently these are instances of large birth-rates coincident with a large proportion of female children, and small birth-rates coincident with a large proportion of male children; and such coincidences have been found by the compiler to be most frequent. If it is true that the women exercise more control than do the men over the increase or decrease of the birthrate, then the foregoing may be evidence that increased vigor, or at least willingness to bear children, on the part of the women leads to an increased proportion of female children. It seems to be a well-established fact in vital statistics that the proportion of females is much greater among illegitimate children than among children born in wedlock. Whether or not the willingness, in either of the two cases just mentioned, extends to the bearing of children is a question not profitably discussed here, though knowledge of the conditions which determine the sex of children is of acknowledged importance.

There were 137 births returned for 1874 without the statement of the color of the children being given. This is a much larger number than should be thus reported, and a little effort on the part of a few persons would have greatly reduced the number compiled as unknown color; for instance, by turning to Table VI., it may be seen that 110 of the 137 births returned without the color being specified are reported from counties as follows: Ionia 59, Montcalm 15, Muskegon 36. By referring to the returns, we find that 32 of the 59 in Ionia county were returned from Orleans township, and 26 from Orange township; the 15 from Montcalm county were from Evergreen township; and the 36 from Muskegon county were from "Muskegon." If these few officers had made proper returns of the color, the number compiled as of

unknown color would have been reduced from 137 to 27.

TABLE V .- Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1870, the Number of Children returned as having been born in the State during the year 1874, the Per Cent. of Children born in 1874 to Inhabitants in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such Child-bearing ages, the Per Cent. of Children of each Sex to the total Number of bith sexes, and the Number of Inhabitants to each Child born of the Same Color. (Stillbirths included.)

COLOR OR RACE.	SEX.	Population Jane 1, 1870, Represented by Births in 1874.	Children born in 1874.	Per Cent, of Children born to In-	Women, June 1, 1870, Aged 18 and under 45 Years.	Per Cent, of Chil- dren to Women Aged 18to 45 Yrs.	Per Cent, of each Sex to Children of both Sexes.	Inhabitants to one Child bern, by Color and Sex.
	Total	1,180,353	31,151	2.639		13.509		37.89
114.1	Males	616,109	16,283	2.643			52.35	37.84
All Colors	Females	564,244	14,819	2,627	230,590		47.65	38.08
	Unknown		49					
	Total	1,163,966	30,643	2,632		13,479		37.98
	Males	607,601	16,011	2.635			52.30	37,95
White	Females	556,365	14,600	2.624	227,331		47.70	38.11
	Unknown		32					
	Total	5,521	146	2.644				37.82
Black	Males	3,047	88	2.885			60.27	34.63
	Females	2,474	58	2.344			39.73	42.68
	Total	6,215	83	1.335				74,88
Mulatto	Males	3,137	47	1.498			56.63	66,74
	Females	3,078	36	1.170			43,37	85,50
4	Total	4,651	142	3.053		15,220		32.75
Indian	Males	2,324	63	2.711			44.37	36,89
	Females	2,327	79	3.395	933		55.63	29,48
	Total		137					
According to	Males		74				61.67	
Unknown color	Females	******	46				38,33	
	Unknown		17					
	Total	11,736	229	1.951		9,845		51,25
Black and Mulatto b.	Males	6,184	135	2.183			58.95	45.81
	Females	5,552	94	1.693	2,326		41.05	59.06

Number ascertained from U.S. Census of 1870, Vital Statistics Volume, pp. 560-669.
 Includes all of African descent.

TABLE VI.—Exhibiting for the State and Counties of Michigan, by Sex, the Number of Inhabitants in 1874, the Per Cent. of Births Returned for 1874 to Population in 1874, the Number of Males to 100 Females burn during the Year 1874, and by Sex and Color the Number of Children Returned as having been born during the Year ending December 31, 1874. (Still-births included.)

STATE	Number		Per Cent. of Births	Inhab- itants in 1874	Per Ct. of Births of Each	C	COLOR,—	CHILD	ren I	n 1874.	
AND COUNTIES,	of Males to 100 Females.	Sex.	of Each Sex to To- tal of both Sexes.	Bapre- sented by Births in 1874.	Sex to Popula- tion of same Sex.	Total of all Colurs.	White.	Black.	Mu- latto.	In- dian.	Un- kno'n
		Total		1,325,983	2.35	81,151	80,643	146	83	142	137
		Males	52.35	692,642	2.35	16,283	b 16,011	¢ 88	47	4 63	• 74
8tate	110	Females	47.65	633,341	2.34	14,819	f 14,600	€ 59	36	1 79	1 40
		Unknown				49	82			ļ	17
		Total		1,214	2.72	33	32				
		Males	58.06	688	2,62	18	18				
AlconaJ	138	Females	41.94	526	2.47	13	18		 		
		Unknown				2	1				1
		Total	100,00	32,381	2.15	697	688		4	5	
Allegan	109	Males	52.22	16,976	2.14	364	361		8		
		Females	47.78	15,403	2.16	833	827		1	5	
		Total	100,00	4,697	2.30	108	108				
Alpensk	104	Males	50.93	2,730	2.02	55	55				
		Females	49.07	1,967	2.69	53	53				
		Total	100,00	3,002	3.46	104	98		 	6	
Antrim	131	Males	56,73	1,654	3,57	59	56			8	
		Females	43.27	1,348	3.34	45	42		 	3	 -
		Total	100.00			46	89	 	. 	7	
Baraga	283	Males	73.91			34	29	 .		= 5	 -
		Females	26.09			12	10	 -		n 2	 -
		Total	100.00	22,051	2.37	522	519		8		ļ
Da	110	Males	53.74	11,588	2.42	280	278	 	2		
Barry	116	Females	46.26	10,463	2.30	241	240		1		ļ
		Unknown	. 			1	1		 -	 	ļ
		Total	100.00	24,655	3.89	960	953	2	1	8	1
Bayk	110 -	Males	59,29	13,538	3.70	502	497	1	1	2	• 1
		Females	47.71	11,097	4.13	458	456	1		1	

^{*}For countles and townships from which no returns were received, see Table XXI. of Births by months. * I Triplet. * 10 "Colored." 44 "Half-Indian," and 18 White and Indian. * 1 "Creole." f 3 Triplets. * 10 "Colored," and 1 "Nogro." * 1 "Half-Indian," and 11 White and Indian. 11 "Highly Colored." J Includes population of Oscoda County. * Except of townships not represented by returns of births, for which see Table XXI. 1 Population of Baraga County cannot be ascertained. It was compiled with Houghton. ** 4 "Half-Indian," and 1 White and Indian. * 1 "Half-Indian."

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Number		Per Cent.	Inhab- itants in 1874	Per Ct. of Births of Each	•	OLOR,-	CHILD	REN IX	N 1874.	
COUNTIES.	of Malea to 100 Females.	Sex.	of Each Sex to Tu- tial of both Sexes.	Bepresented by Births in 1874.	Sex to Popula- tion of same Sex.	Total of all Colors,	White.	Black.	Mu latto.	In- dian.	Un- kuo'n
	1	Total	100.00	2,668	2,86	76	75		1	 	
Benzie	73	Males	42.11	1,422	2.25	83	32				
	į	Females	57.89	1,241	3.54	44	43		1		
	1	Total	100,00	85,029	1.55	541	527	5	8		
Berrien	104	Males	51.02	17,942	1.54	276	266	4	5		:
	į	Females_	48,98	17,087	1.55	265	261	1	8	ļ	
	!	Total	100.00	25,726	1.94	496	497			1	
M	127	Males	55.94	13,041	2.13	278	278			ļ	ļ
Branch	12, 1	Females.	41.06	12,685	1.78	219	218			1	
ŀ	(Unknown				1	1				
	ſ	Total	100.00	35,655	1.54	560	540	5	8	2	ļ
Calboun	118 {	Males	54.18	18,156	1.64	298	294	2		2	
	- (Females	45.82	17,499	1.44	252	246	8	8		
,	ſ	Total	100.00	20,525	1.57	822	301	10	11		
Cass	118	Males	54.04	10,592	1.64	174	161	6	7		
	1	Females	45.96	9,933	1.49	149	140	4	4		
	ſ	Total	100.00	2,360	2.71	64	56	2		6	
Charlevoix	137	Males	57.81	1,280	281	37	83	2		2	
	- {	Females	42 19	1,090	2.50	27	23			4	
		Total	100.00	8,070	8.42	105	301	1		3	
[Cheboygan	119	Males	54.29	1,706	3.34	57	57		••••		
		Females	45.71	1,364	3.52	48	44	1		-8	
	Ì	Total	100.00	1,949	8.75	73	46			27	
Ohippewa_ b	83	Males	45.21	1,091	3.02	33	24			۰ 9	- -
		Females.	54.79	858	4.66	40	22			¢18	
	1	Total	100.00	1,354	2.95	40	40				
Clare	135	Males	57.50	745	3,09	23	28				
		Females	42.50	609	2.79	17	17				
	ì	Total	100.00	23,661	2.18	515	515				
	Ì	Males	52.92	12,162	2.24	27:3	273				
Clinton	112	Females.	47.08	11,499	2.10	242	243				
		Unknown				1	1				
		Total	100,00	4,355	8.05	133	128			5	
Deltab	93	Malcs	43,12	2,658	2.41	64	61			4 8	
TO 101	_ ~]	Females_	51.86	1,709	4.05	69	67			2	

^{• 2} White and Indian. • see Table XXL • 8 White

'ha, for which

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

-											
	. .		Per Cent.	Inhab- itants iu	Per Ct.	. (Color,—	Снігр	REN II	1874.	
COUNTIES.	Number of Enles to 100 Females,	Sex.	of Births of Each Sex to Tu- tal of both Sexes.		of Each Sex to Popula- tion of same Sex,	Total of all Colors.	White.	Black.	Mu- latto.	In- dian,	Un- kno'n,
		Total	100,00	26,907	2.00	540	537	1			2
		Males	53.26	18,875	2.06	286	2115	1			
Eaton	114	Females	46.74	18,032	1.93	251	250	 	 		,
		Unknown				3	2				1
	إ	Total	100.00	1,272	8.07	89	9		ļ	80	
Emmet	105	Males	51.28	669	2.99	20	4			a 16	 .
		Females .	48,79	608	8.15	19	5		 	14	
	1	Total	100.00	84,568	1.63	564	563		1		
		Males	56 31	17,538	1.81	317	317				
Genesee	129	Females	43.69	17,082	144	246	245		1		
	i	Unknown	 			1	1			 .	 .
	1	Total	100,00	265	1.89	5	5		 -		
Gladwin	400	Males	80.00	145	2.76	4	4				
	(Females	20.00	120	.88	1	1		 -	 -	
	(Total	100,00	4,741	2.05	97	97			 -	
Gr. Traverse, b	149	Males	59.79	2,479	2.84	58	58				ļ
	l	Females	40.21	2,262	1.72	89	39				 -
	(Total	100.00	13,896	2.71	876	376				ļ
Gratiot	190	Males	54.52	7,304	2.81	205	205				
	l	Females .	43,48	6,593	2.60	171	171				
•	1	Total	100.00	31,586	1.41	444	413				1
77111-4-1-	103 {	Males	50.79	15,971	1.41	225	225				ļ
Hillsdale	103 1	Females	49 21	15,595	1.40	218	218				
		Unknown		 		1					1
	i	Total	100.00	19,180	4. 19	798	798				
Tonmbton a	110 {	Males	52.45	11,013	8.90	418	418				
Houghton.	110	Females	47.55	8,017	4.73	879	879				
	į į	Unknown				1	1				
	ſ	Total	100.00	11,516	8.73	430	429		1		
Timmon h	,,,	Males	56.61	6,366	8.83	243	243				
Huronb	131 {	Females	43.36	5, 150	8.61	186	185		1		
•		Unknown				1	1				
		Total	100.00	29, 193	1.99	5%3	578	3	2		
lpgham	101	Males	50.17	15,204	1.92	293	289	2	1		
rnRnwm	101	Females	49.83	13,989	2.07	290	288	1	1		
	į į	Unknown				1	1				
				<u>'</u>							

^{• 2} White and Indian. • Except of townships not represented by returns of Births, for which see Table XXI. • Includes population of Baraga County.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

COUNTIES Counties				Per Cent.	Inhab- itants in	of Bliths	C	OLOR,-	CHILD	REN IN	r 1874.	
Ionia	COUNTIES.	to 100	Sex.	of Births of Each Sex to To- tel of both	18/4 Represented by Births	l'opula- tion of	of all	White.	Black.			Un- kno'n.
Females. 47.00 18,588 2.10 285 263 1 2 2 2 2 2 2 3 1 2 2 2 2 3 1 2 2 2 3 3 3 3 3 3			Total	100.00	28,376	2.10	595	534	2			59
Total 100,00 3,679 2.17 80 79	Ionia	109 {	Males	52.10	14,788	2.10	810	272	1			87
Iosco		i	Females	47.90	13,598	2.10	285	262	1	••-••	 	23
Total 100.00 1,0			Total	100,00	8,679	2.17	80	79				1
Females	Tagaa a b	J	Males	56.41	2,244	1.96	44	44				 -
Total 100.00 5,005 2,46 123 119 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10800	129	Females	43.59	1,435	2.87	84	84				
Isabella		1	Unknown				2	1				1
Females			Total	100,00	5,005	2.46	128	119		1	3	
Jackson	Isabella	190	Males	54.47	2,724	2.46	67	66	 		1	
Jackson 93 Males 48.60 19,833 1.74 346 344 2		i	Females	45.53	2,281	2.46	56	53		1	2	
Females		,	Total	100.00	37,988	1.87	713	710	2	1		
Females 51.40 18,135 2.01 366 365 1	•••••		Males	48.60	19,853	1.74	816	844	2			
Kalamazoo 97	Jackson	3 3	Females	51.40	18, 135	2.01	366	865		1		
Kalamazoo 97 Males			Unknown	••••			1	1				
Females So.87 15,701 2.04 820 311 4 8 1		1	Total	100.00	82,284	1.95	632	616	12	1		8
Females 50.87 15,701 2.04 820 311 4 8 1			Males	49.13	16,583	1.86	809	805	c 4	 .		 .
Total	Kalamazoo	97	Females	50.87	15,701	2.04	820	311	4 8	1	 	
Kalkaska 133 Males 56.93 692 8.85 37 37			Unknown		•		8		 			8
Females 43.08 567 4.94 28 28			Total	100.00	1,259	5.16	65	65				
Total	Kalkaska	133	Males	56.92	692	8.85	87	87				
Kent			Females	43.08	567	4.94	28	28				
Total 100,00 1,813 8.25 59 1 1 1 1 1 1 1 1 1			Total	100.00	62,571	2,43	1,528	1,523	1			
Females. 48.26 30,093 2.44 735 735 .			Males	51.74	82,576	2.42	788	785	1			,
Total	Kent	107	Females	48.26	80,095	244	735	735		ļ		
Keweenaw 130 Males			Unknown				5	2	ļ			8
Total			Total	100.00	5,415	8.95	214	214	 		 	
Lake 74 { Total 100.00 1,813 8.25 59 59	Koweenaw	130 -	Males	56.54	8,237	8.74	121	121	 			
Lake 74		Ì	Females	43.46	2,178	4.27	93	93				
Females 57.63 798 4.26 34 34		l	Total	100.00	1,813	8.25	59	59				
Tapeer 111 { Total 100.00 25,140 1.95 491 489 1 1 1 1 1 1 1 1	Lake	74	Males	42.37	1,015	2.48	25	25	 	¦		
Lapoer 111 Males 54.29 13,095 2.03 206 266 Females 45.71 12,045 1.86 224 223 1 1			Females	57.63	798	4.26	84	84	ļ			
Lapoer 111 Females 45.71 13,045 1.86 224 223 1 1			Total	100.00	25,140	1.95	491	489	1	1		
Lapeer 111 Females 45.71 12,045 1.86 224 223 1 1	- .		Males	54.29	13,095	2.03	206	266				
Unknown	Lapoer	1111	₹	ł	1	1.86	224	2:23	1	1		
. / www			Unknown		ļ		1	1				

^{*} Except of townships not represented by returns of births, for which see Table XXL bin-cludes populaton of Ogemaw County. •4 "Colored." •4 "Colored."

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Number		Per Cent. of Births		Per Ct. of Births		COLOR,—	Снігрі	REN II	r 1874.	
COUNTIES.	of Males to 100 Females.	SEX.	of Each Sex to To- tal of both Sexes.	1874 Ropresented by Births in 1874.	of Each Sex to Popula- tion of same Sex.	Total of all Colons	White.	Black.	Mu- latto.	In- dian.	Un- kno'n.
		Total	100,00	5,031	2.23	112	107		1	4	
Leelanaw	100	Males	50.00	2,692	2.08	56	52		1	8	ļ .
		Females	50,00	2,339	2.39	56	55			1	
		Total	100.00	46,084	1.57	723	717	4	2		ļ
Lenawee	114	Males	53.25	23,256	1.66	385	383	1	1		
		Females	46.75	22,828	1,48	808	834	8	1		
	1 1	Total	100,00	20,329	1.99	406	403	1	2	 	
Livingston _	85	Males	46,06	10,569	1.77	167	186	1		ļ	ļ
		Females	53.94	9,760	2.24	219	217		2		
		Total	100.00	1,496	3.21	48	47] 1
Mackinac	176	Males	63.83	765	3,92	80	80		 		
ALBOAIDBO	1.0	Females	36.17	731	2.33	17	17				
		Unknown	 			1					1
		Total	100.00	24,305	2.15	608	608.		ļ		
Macomb	111	Males	52.55	14,867	2.22	819	819				
MACOIN U	111	Females	47.45	13,938	2.07	288	288	ļ			
	1	Unknown				1	1				
	! 	Total	100.00	8,112	3.66	297	297				
Manistee	95	Males	48,83	4,595	3.15	145	145	 			
	ļ	Females	51.18	8,517	4.32	152	152				
		Total	100.00	657	4.57	80	30				
Manitou	97	Males	46.67	364	3.85	14	14				ļ
	1	Females	53.33	293	5.46	16	16			ļ	
	1	Total	100.00	21,946	4.06	891	845	ļ	5	1	
Marquette	103	Males	50 84	12,893	3.51	453	447		5	>1	
		Females	49.16	9,053	4.84	438	438				
	1	Total	100.00	4,818	291	140	134			6	
Mason	94	Malos	48.57	2,649	2.57	68	66			2.	
		Females	51.43	2,169	3,32	72	68			4	
		Total	100.00	9,132	2,93	263	265	2			
Mecosta	100	Males	50.00	4,874	2.75	134	134	ļ			
		Females	50.00	4,256	3, 15	184	182	2		ļ	
		Total	100.00	8,490	.32	11	11	ļ		ļ	
Menominee.	57	Males	36,36	2,213	.18	4	4	 		 	
	1	Females	63,64	1,277	.55	7	7	1			l

[•] Except of townships not represented by returns of births, for which see Table XXI. • White and Indian.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

1	_		Per Cent.	Inhab- itants in	Per Ct. of Births	(COLOR,-	-CHILD	RKN I	1874.	
COUNTIES. O	Number f Males to 100 Females.	Sex.	of Births of Each Sex to To- tal of both Sexcs.	1874 Represented by Births in 1874.	of Each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black.	Mu- latto.	In- dian.	Un- kne's.
	ſ	Total	100.00	4,666	3,89	158	156	1			1
		Males	51,59	2,534	8.20	81	80				1
Midland	107	Females	48.41	2,132	3.56	76	75	1			
	l	Unknown				1	1				
	(Total	100,00	606	4.13	25	25				
lissankee	257	Males	72.00	395	4.56	18	18				
	l	Females	28,00	211	8.32	7	7				
	ſ	Total	100,00	30,111	2.56	771	770		1		
Y		Males	50.26	15,302	2.59	386	386				
Monroe	101	Females .	49.74	14,809	2.58	382	381		1		
1	l	Unknown				3	3				
•	. 1	Total	100.00	20,815	1.98	413	396	1	1		15
		Males	54.26	11,811	1.97	223	213	1	1		8
fontcalm	119 {	Females	45.74	9,504	1.98	188	181		*****		7
	l	Unknown				2	2				
.	ſ	Total	100.00	19,375	2.43	471	435				36
		Males	51.28	10,761	2.24	241	219				20
duskegon	105 ∤	Females .	48.72	8,614	2.66	229	215				14
İ	Į	Unknown				1	1				
	(Total	100.00	7,578	2.19	166	164			2	
Y		Males	50.30	4,248	1.95	83	83			1	
Newaygo	101 {	Females	49.70	3,332	2.46	82	81		,	1	
	l	Unknown				1	1				
ł	(Total	100.00	38,082	1.42	552	548	4			
Dakland	100	Males	50.00	19,446	1.42	276	274	2			
	l	Females	50.00	18,636	1.43	276	274	2			
	ſ	Total	100.00	8,360	2.97	249	236	1		12	
ceana	101	Males	50.20	4,581	2.73	125	121	1		b3	
}	Į	Females .	49.80	3,779	8.28	124	115			6.9	
	(Total	100.00	2,406	3.78	91	88			3	
Ontonagon	98	Males	49.45	1,276	8.53	45	45			-	****
	l	Females	80.55	1,130	4.07	46	43			3	
	{	Total	100.00	6,216	8.33	210	210	week			,
Daceola	108	Malos	51.90	8,491	8.12	109	109				
ļ	(Females	48, 10	2,725	8.71	101	101				

 $^{^{\}rm a}$ Except of townships not represented by returns of births, for waand Indian.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

			Per Cent.	Inhali-	Per Ct. of Births	(OLOR,—	CHILD	ren I	n 1874.	
COUNTIES.	Number of Males to 100 Females.	SEX.	of Births of Each Sex to To- tal of both Sexes.	Repre-	of Each Sex to Popula- tion of same Sex.	Total of all Culors,	White.	Black.	Mn- latto.	In- dian.	Un- kno'n.
		Total	100.00	29,929	291	872	867	5			
Ottawa	115	Males	53.56	15,789	2.96	467	462	5	 -		
	Į Į	Females	46,44	14,140	2.86	405	405				
	۱ ۱	Total	100,00	1,615	1.36	22	22			 -	
Pres. Isle a b	83 {	Males	45.45	851	1.18	10	10	 -	 		
	į	Females	54.55	764	1.57	12	19	j			
	(Total	100.00	48,409	2.80	1,855	1,342	2		10	1
Saginaw	110	Males	52.48	25,968	2.73	710	708	• 1	¦	6	
Carbina 4		Females	47.52	22,441	2.87	643	638	• 1	 -	4	
	ŧ	Unknown				2	1				1
	(Total	100.00	16,292	8.19	520	519		1		
Sanilac	130	Males	56.54	8,652	8.40	294	296		1		
	į	Females	48.46	7,640	2.96	226	226				
	ſ	Total	100.00	1,290	8.79	49	45			4	
Schoolcraft.	145	Males	50, 18	824	8.52	29	25		 	4.4	
	[Females	40.82	466	4.29	20	20				
	ſ	Total	100,00	21,773	2.08	453	452		1		
Shiawassee	103	Males	50.77	11,265	2.04	230	229		1		
	į	Females	49.23	10,508	2.12	223	228				
		Total	100,00	40,683	2.49	1,014	1,013		 -		1
St. Clair	108 -{	Males	51.98	21,181	2.48	526	526				
St. Clair	105	Females.	48.02	19,507	2.49	486	486		 -		
	l	Unknown				2	1				1
	1	Total	100.00	25,906	1.70	440	439	1			
8t. Joseph	122	Males	55.00	13,267	1.82	513	241	1			
	l	Females	45 00	12,639	1.57	198	198				
	(Total	100.00	16,998	251	427	427				
Tuscola	112	Males	52.93	8,950	2.53	226	226				
	l	Females	47.07	8,018	2.50	201	201				
	(Total	100 00	29,136	1.77	516	501	6	7	2	
Van Buren	111	Malcs	52.71	15,062	1.81	273	• 264	14	4		
	l	Females.	47.29	14,094	1.73	214	s 237	h 2	8	2	
	ŗ	Total	100.00	88,723	1.72	666	659	5	1		1
Washtenaw.	102	Males	50,60	19,553	1.73	837	834	٠ 8			
	1	Females.	49,40	19,170	1.72	829	825	9	1		11
			l	·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	·	1	<u>'</u>	'	

^{*}Except of townships not represented by returns of births, for which see Table XXI. There were no returns of births from supervisors of Presque 1ste and Rogers townships, but the population could not be accretained and hence no deduction for them was uncle. c | "clored." 4 2 Whits and Indian. c | Triplet. | 44 "Colored." s 2 Triplets. | 1 "Colored" and 1 "Negro." | 1 "Highly Colored."

TABLE VI .- CONTINUED .- Births by Counties, by Sex, and by Color.

-4	Number		Per Cent.		Per Ct. of Births	C	OLOR,-	CHILD	REN II	N 1874.	
COUNTIES.	of Males to 100 Femules,	SEX.	of Births of Each Sex to To- tal of both Sexes.		of Each Sex to Popula- tion of same Sex.	Total of all Colors,	White.	Black.	Mu- latto,	In- dian,	Un- kno'n.
	2	Total	100,00	144,903	3.00	4,354	4,259	66	22		7
Wayne	111	Males	52.69	72,386	3.17	2,289	2,231	42	14		2
wayne	111	Females.	47.31	72,597	2.83	2,065	2,022	24	8		1
		Unknown				10	6				4
1 1		Total	100,00	1,765	3,40	60	60				
Wexford a	114 -	Males	53.33	1,041	3.07	32	32				
	0	Females .	46,67	724	3.87	28	28			*****	

[.] Except of townships not represented by returns of births, for which see Table XXI.

Table VI. furnishes data for profitable study of the birth-rate in the different counties of the State. As in previous Reports, we make four propositions concerning the births in the several counties, as follows: 1, greater than average birth-rate, more than average proportion of males; 2, greater than average birth-rate, less than average proportion of males; 3, less than average birthrate, less than average proportion of males; 4, less than average birth-rate, more than average proportion of males. Three counties had the average proportion of males, with greater than average birth-rate; and of the remaining 68 counties for which a statement is made, the first proposition is true of 19 counties, the second is true of 15 counties, the third is true of 16 counties, and the fourth is true of 18 counties. The proposition that a greater than average birth-rate is attended with less than average proportion of male children, and vice versa, holds true in 34 out of 67 counties in 1871, 37 out of 68 counties in 1872, 26 out of 69 counties in 1873, and in 33 out of 68 counties in 1874. It will be seen, therefore, that this proposition holds true as a rule in only 1871 and 1872, while for the year 1873 the opposite proposition holds true as a rule, viz.: greater than average birth-rate is attended with more than average proportion of male children, and vice versa; this proposition holds true in 41 out of 69 counties in 1873; and in 35 out of 71 counties in 1874, so that in 1874 there is no rule shown, although this last proposition holds true more than any other.

BIRTH-RATE OF NATIVE AND OF FOREIGN-BORN INHABITANTS.

Exhibit H shows the birth-rate in Michigan in each of the years 1870-1874, according to the returns, based upon the population June 1, 1870, represented by returns of births for the different years. This exhibit indicates that the birth-rate among the foreign-born inhabitants is very much greater than among the native for each of the years 1870-1874; but it does not deal with the fact that of the foreign-born a much larger proportion than of the native inhabitants are of the middle or child-bearing ages. This subject may be studied in the Exhibits F, I, K, and L, the last two lines in each giving a wring upon it, and also in Exhibit J, in which

EXHIBIT H.—Parent-Nativity of Children born in Michigan during the Years 1870, 1871, 1872, 1873, and 1874,-Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants June 1, 1870.

	NATIVE A	ND FOR	REIGN-	PA	RENTS		DREN B		1870, 18	371,
NATIVITY OF PAR- ENTS OF CHILDREN, AND NATIVITY OF INHABITANTS,	BORN P JUNI	OPULAT E 1, 1870	•	Years		Number.	•	PER CT. 6 POPUL SEX AN	O KOITA	P SAME
	Total.	Males.	Females.	Birth.	Both Parents.	Fathers.	Mothers.	Both Parents.	Fa- thers.	Moth- ers.
All Nativities	· 1,158,166	603,655	554,511		52,632	26,816	26,316	4.54	4.36	4.75
Natived	904,740	463,422	441,318	1870	27,972	13,531	14,441	8.09	2.92	8.27
Foreignd	253,426	140,233	113, 193		20,532	10,721	9,811	8,10	7.65	8.67
All Nativities	1,147,234	697,767	549,468	1	51,876	25,688	25,688	4.48	4.80	4.68
Natived	894,202	457,914	436,238	1871	25,778	12,447	13,331	2.88	2.72	8.06
Foreignd	253,032	139,854	113,178		20,554	10,719	9,835	8.12	7.66	8.67
All Nativitiesc	• 1,169,283	609,946	559,337		55,282	27,641	27,641	4.78	4.53	4.94
Natived	908,625	465,386	443,239	1872	29,420	14,097	15,323	3.24	3.03	8.40
Poreignd	260,658	144,560	116,098		28,072	12, 154	10,918	8.85	8.41	9.40
All Nativities	a 1,179,082	615,228	563,854	!	68,356	84,178	84,178	5.80	5.56	6.06
Natived	915,366	468,888	446,478	1873	87,279	17,914	19,865	4.07	8.82	4.8
Foreignd	263,716	146,340	117,376		28,823	15,136	13,686	10.93	10.84	11.60
All Nativities	a 1,180,353	616, 109	564,244	1	61,478	80,739	80,739	5.21	4.99	5.40
Natived	915,679	469, 105	446,574	1874	81,092	14,834	16,258	8.40	8.16	8.64
Poreignd	264,674	147,004	117,670		25,452	18,438	12,014	9.61	9.14	10.21

Table VII. shows the number and proportion of births in Michigan in 1874, by sex and parent-nativity. The largest proportion is of children whose parents were both native. The number of children whose parent-nativity was not returned is larger than for any year since 1871.

All this evidence will become more valuable whenever an amended census law shall provide better statistics of the nativity and parent-nativity of the inhabitants, with which to compare these statistics of births.

Population, 1879, represented by births in the respective years of births.
 As shown by number of children after subtracting the proper number for twins and triplets.
 Includes parents of unknown nativities.
 Excluding cases where nativity of either parent is unknown.

TABLE VII.—Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Purent-Nativity of Children born in Michigan during the Year 1874.

				BIRTH	8, 187	۱.		
NATIVITY OF PARENTS OF		Num	BER.		F	ER CENT	OF TOTA	L.
CHILDREN BORN.	Total.	Males.	Fo- nucles.	Un- known.	Total.	Mules.	Fo- males,	Un- known.
All Nativities	81,151	16,283	14,819	49	100.00	100.00	100,00	100.00
Both Parents Native	13,341	6,982	6,341	15	42.83	42.88	42.81	30.65
Both Parents Foreign	10,517	5,469	5,034	14	83 76	83.59	83.97	28,5
Foreign Father and Native Mother	3, 130	1,679	1,448	3	10.05	10.31	9.77	6.1
Foreign Mother and Native Father.	1,030	867	811	2	5.39	5.32	5.48	4.0
Unknown Mother, Father Native	707	367	839	1	2.27	2.25	2,29	2.0
Unknown Mother, Father Foreign.	947	495	430	2	8.04	8.04	8.04	4.00
Unknown Father, Mother Native	194	95	99		.62	.58	.66	
Unknown Father, Mother Foreign.	197	105	92		.63	.64	.62	
Both Unknown	438	3 51	202	12	1.41	1.37	1.36	24.45
One or Both Native	19,052	9,990	9,041	21	61.16	61.35	61.01	42.80
One or Both Foreign	16,471	8,615	7,835	21	52.87	52.90	52.87	42.80

In order to understand the relation which the per cent. of children born of native or of foreign-born parents bears to the per cent. of native and of foreign-born inhabitants at the child-bearing or middle ages, the last two lines in each of the Exhibits F, I, K, and L, and in Table VII., should be studied together.

EXHIBIT F.—Parent-Nativity of Children born in Michigan during the Years 1869, 1870, 1871, 1872, 1873, and 1874.

	Вівтн	ı, 1869.	BIRTH	a, 1870.	Вівтн	s, 1871.	Всетн	ı, 1872	Вівтн	, 1873.	Віятні	, 1874.
NATIVITY OF PARENTS OF CHILDREN BORN.	Num ber.	Per Cont. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num ber.	Per Cent, of Total,
All Nativities	27,093	100.00	28,683	100.00	25,992	100.00	27,993	100.00	34,608	100.60	31,151	100.00
Both Parents Native	13,060	49.20	12,395	46.48	11,374	43.75	12,907	46.11	16,202	46,81	13,341	42.83
Both Parents Foreign Father Foreign and Mother Native	8,043 1,904 1,219	29.68 7.02 4.49	8,604 2,246 1,3 <i>2</i> 5	8,42	2,109		9,721 2,599 1,359	9.28	11,946 3,388 1,941	84.52 9.79 5.61	8,130	83,76 10.05 5.39
One or Both Unknown	2,867	10.53	2,093	7.84	2,558	9.84	1,407	5.03	1,131	8.27	2,483	7.97
One or Both Parents Nativea One or Both Parents Foreign	16, 183 11, 1 6 6		15,986 19.17°		14,700	56.55 44.39	16,865 13,679	60.25 48.87	21,531 17,275	62.21 49.9 1		58.47 49.90

[.] Excluding cases where mati-

EXHIBIT I.—Nativity of Inhabitants of Michigan June 1, 1870, aged 15 to 45 Years, stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.

	Inha	BITANTS	OF MICHIO	GAN JUNI YEARS.	E 1, 1870,	AGED
NATIVITY OF INHABITANTS.		NUMBER.		PER	CENT. OF T	TOTAL.
	Both Sexes.	Males,	Females.	B th Sexes.	Malos.	Females.
All Nativities	555,352	289,085	266,267	100.00	100.00	100.00
Native-born	897,306 168,046	195,765 93,320	191,541 74,726	69.74 80.25	67.71 82.28	71.93 28.06

^{*} From Tables XXIIL, XXIV., and XXV., Volume IL, Ninth U. S. Census, 1870.

EXHIBIT K.—Nativity of Inhabitants of Michigan June 1, 1870, aged 20 to 45 Years,—stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.

	INHABITANTS OF MICHIGAN, JUNE 1, 1870, AGED 20 TO 45 YEARS.									
NATIVITY OF INHABITANTS.		NUMBER.		PER CENT. OF TOTAL.						
	Both Sexes.	Males.	Females.	Both Sexes.	Malos.	Females,				
All Nativities	436,043	228,874	207, 169	100.00	100.00	100,00				
Native-born	299,004 147,039	146,278 82,596	142,7 2 6 64,443	66,28 83,72	63.91 36.09	68,89 81.11				

^{*} From Tables XXIII., XXIV., and XXV., Volume 1L, Ninth U. S. Census, 1870.

EXHIBIT L.—Nativity of Inhabitants of Michigan June 1, 1870, aged 25 to 45 Years,—stating, by Sex, the Number and Per Cent. of Nutive and Foreign-born Inhabitants at such Ages.

	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 25 TO 45 YEARS.									
NATIVITY OF INHABITANTS.		NUMBER.		PER CENT. OF TOTAL.						
	Both Sexes.	Mules.	Females.	Both Sexes.	Malos.	Females.				
All Nativities	820,546	168,756	181,790	100.00	100.00	100.00				
Native-born	205,374	103,900	101,474	64.07	61.56	66,85				
Foreign-born	115,172	61,856	50,316	35.93	88.43	83. 15				

^{*} From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Exhibit J contains data concerning the birth-rate among the native and foreign-born inhabitants, aged 15 to 45 years—child-bearing ages. By this exhibit, and the similar ones for previous years, it is shown that, using for each year the number of inhabitants shown by the census of 1870, the birthrate among all inhabitants and among native-born, at child-bearing ages, decreased from 1869 to 1872, in 1872 and 1873 it increased, and in 1874 it decreased again; but among the foreign-born at those ages, the birth-rate has been constantly increasing from 1869 to 1874, when it decreased again nearly in unison with the birth-rate of all nativities.

It may also be seen from this exhibit that the birth-rate among foreign-born women at child-bearing ages is nearly twice as great as among native-born women at the same ages, and the per cent. of foreign-born fathers to the native-born men aged 15 to 45 years is nearly as large in proportion to the native-born.

EXHIBIT J.—By Sex. the Relation of Native and Foreign-born Parents of Children born in Michigan during the Year 1874 to the Native and Foreignborn Inhabitants of Michigan June 1, 1870, at Child-bearing ages,—15 to 45 Years.

NATIVITY OF PARENTS OF CHILDREN BORN.		of Parenti N Born in 1		PER CENT. OF PARENTS OF CHILDREN BORN IN 1874 TO IMMA- ITATE JUNE I, 1870, OF AME NATIVITY AND SEX, AGED 15 TO 45.				
	Both Parents,	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.		
All Nativities	61,478	30,739	30,739	11.07	10.63	11.54		
Both Parents Native	26,352	13,176	13,176	b 6.80	6.73	4 6.88		
Both Parents Foreign	20,712	10,356	10,356	• 12.33	f 11.10	€ 13.86		
Foreign Father and Native Mother	6, 164	3,082	3,062	r 6.61	f 8,80	4 1.61		
Foreign Mother and Native Father	3,316	1,658	1,658	g 4.44	s 2.22	85. ه		
One or Both Parents Unknown	4,934	2,467	2,467			ļ		
One or Both Parents Nativeh	35,832	17,916	17,916	b 9.23	c 9.15	4 9.35		
One or Both Parents Foreignh	3 0, 192	15,096	15,096	• 17.97	1 16.18	s 20.20		
Native			16,452			4 8.59		
Mothers Foreign			12,210		ļ	E 16.34		
Unknown			2,077		 			
Native		15,535			c 7.94			
Fathers Foreign	 	14,379			f 15.41			
Unknown	 	825						

As shown by children born, after subtracting the proper number for twins and triplets.

b Per cent. to native-born inhabitants aged 15 to 45.

e Per cent. to native-born femiles aged 15 to 45.

e Per cent. to foreign-born inhabitants aged 15 to 45.

e Per cent. to foreign-born inhabitants aged 15 to 45.

f Per cent. to foreign-born shalls a seed 16 to 45.

g Per cent. to foreign-born shalls a seed 16 to 45.

k Excluding cases where:

TABLE VIII.—Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children returned as having been born during the Year 1874, and the Parent-Nativity of such Children so far as stated in the Returns. (Still-births included.)

STATE		Children		1			Morne	p IIwr.	FATRE	n Mww	
AND COUNTIES.	SEX.	Born, 1874.	Both	Both	Foreign Father and	Mother and	Fat		!	her.	Both Un-
OOUNTIEG			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For-	kno'n.
	Total	81,151	13,341	10,517	8,180	1,690	707	4947	a 194	• 197	f 488
	Males	16,283	6,962	5,469	1,679	867	367	495	95	105	224
Stateb	Females	14,819	6,844	5,034	1,448	811	339	450	99	92	209
1	Unknown	49	15	14	8	2	1	2			15
	Total	33	9	14	5	4			1		
•••	Males	18	6	6	2	3			1		
Alcona	Females	13	2	7	8	1				 	
	Unknown	2	1	1							
1	Total	697	388	220	56	13	1	2	2		10
Allegan	Males	364	197	124	23	11		2	2		
i	Females	333	191	96	83	7	1				
:	Total	108	18	64	10	9		4		1	٠
Alpena	Males	55	9	81	7	5		1			,
	Females	53	9	33	8	4		3		1	
	Total	104	43	36	17	6					5
Antrim	Males	59	23	20	12	4					
1	Females	45	20	16	5	2					,
1	Total	46	3	31	6	3		2			,
Baraga	Males	84	1	23	6	1	 	2			,
	Females	12	2	8		2					ļ
	Total	522	381	52	50	80			6		8
_	Males	280	200	33	80	16			1	ļ	l <u></u>
Barry	Females	241	181	19	20	14			5		,
1	Unknown	1					 			 -	,
	Total	960	219	495	117	88	1	4	11	10	ענ
Bay s -	Males	502	127	246	60	52	1	3	4		
	 Females	458	92	249	57	36		l 1	7	10	١ ،

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." b Except of counties and townships not represented by returns of births, for which see Table XXI. • 12 Mother "America." 42 Father "America." • 9 Father "America." f 14 "America," 1 "North America," 35 Father "America," 12 Mother "America." g Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

					NATIVI	r of P	ARENT	18.—18	19.0		_
		Children			Foreign	Foreign	Мотни	RUNK.	FATHE	R UNK.	
COUNTIES.	SEX.	Born, 1874.	Both	Both	Father	Mother	Fat	her.	Mo	ther.	Both Un-
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	kno'n.
	Total	76	33	21	11	4	1			1	1
Benzie	Males	32	12	10	5	2			2		3
4,50001,4151511111	Females	4	21	11	6	2	1		2		
	Total	541	338	113	57	24	3	2	3		1
Berrien	Males	276	177	50	31	12	2	2	1		1
	Females	265	161	63	26	12	1		2		
	Total	498	398	41	28	11	5	1	7	1	6
	Males	278	230	20	13	7	3		3	1	1
Branch	Females	219	168	21	15	4	2	1	4		
	Unknown	1									1
	Total	550	393	73	43	25	2	1	4	2	,
Calhoun	Males	298	222	33	21	13		1	4	1	3
	Females	252	171	40	22	12	2			1	4
	Total	322	270	18	16	7	3		3		5
Cass	Males	174	147	11	8	3	3				1
	Females.	148	123	7	8	4			3		3
	Total	64	32	14	10	6	2				
Charlevoix	Males	37	18	9	6	2	2				
	Females.	27	14	5	4	4					
	Total	105	24	50	19	10	1	1			
Cheboygan	Males	57	8	25	16	6	1	1			
	Females	48	16	25	3	4					
	(Total	73	21	23	9	4			4	4	8
Chippewa b	Males	33	8	11	5	1			1	3	
1	Females.	40	13	12	4	3	200		3	1	
	Total	40	23	9	6	1					1
Clare	Males	23	13	5	4	1					
	Females	17	10	4	2						1
	Total	515	330	77	64	25	6	4	4		5
	Males	272	158	52	39	13	3	1	2		4
Clinton	Females	242	171	25	25	12	3	3	2		1
	Unknown	1	1	- 9				10.74			
	Total	133	19	83	9	3	1	5	1	4	8
Delta b	Males	64	9	45	2	1		. 2		1	
	Females.	69	10	38	7	2	1	. 3	41	4 3	. 4

[&]quot;Native" includes only these born in the Trained Season in which the birthplace was returned as "America" were compiled resented by returns of births, for which ica." «1 "America."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

]		NATIVI	TOF P	AREN'	rs.—18	74.=		
		Children		1	Foreign	Foreign	Motes	er Unk.	PATRE	r Unk.	
COUNTIES.	SÈX.	Born, 1874.	Both	Both	Father	Mother and	Fat	her.	Mot	her.	Both Un-
		10/4.	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	For- eign.	kno'n.
	Total	540	461	21	30	15	6	2	2		8
	Males	286	246	11	16	7	2	2	1		1
Eaton	Females .	251	212	10	14	8	4		1		2
	Unknown	3	3								
!	Total	89	35			1	1		1		1
Emmet	Males	2 0	17				1		1	 	1
	Females.	19	18			1	 			 	
	Total	564	376	84	61	37	 	1	4		1
0	Males	317	215	41	84	24			2	ļ	1
Genesee	Females.	246	161	49	27	13		1	2		
i	Unknown	1		1				 	 -	 -	
:	Total	5	5			•••••		ļ		 	
Gladwin	Males	4	4	ļ		••••				ļ	
	Females.	1	1				 -				
!	Total	97	51	24	10	8	2		1	1	
Gr'd Traverse.	Males	58	30	14	8	3	2		1	 	
	Females .	89	21	10	2	5			•••••	1	
	Total	376	285	37	80	22		••••	1	1	•
Gratiot	Males	205	155	20	17	12		•	1	ļ	
	Females.	171	130	17	13	10	 -		•••••	1	
1	Total	444	55	6	10	7	309	38	6	2	11
Hillsdale	Males	225	80	3	6	3	157	15	5		6
Hilledate	Females.	218	24	8	4	4	152	23	1	2	5
(Unknown	1	1		•••••		•				
	Total	798	32	701	48	14			1		3
Houghton	Males	418	19	364	26	9					
Trong a con	Females.	379	13	336	22	5	•		1		3
(Unknown	1		1							
;	Total	430	84	326	45	22			•	2	1
Huron	Males	243	26	182	27	7					1
Auton	Females .	196	8	143	18	15				2	
İ	Unknown	1	•••••	1							
1	Total	583	424	75	44	28	4		5		3
Ingham	Males	292	204	83	27	19	4		3	•••••	2
angun III	Females .	290	219	42	17	9			2		1
ł	Unknown	1	1								•
				<u>'</u>			1				

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." b Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

					NATIVIT	ry of P	ARENT	rs.—18	74.•		
		Children		[Foreign	Foreign	Mothe	e Une.	FATHE	e Une.	n-41
COUNTIES.	SEX.	Born, 1874.	Both Native.	Both Foreign.	Father and Native	Mother and Native	Fat	her.	Mot	ther.	Both Un-
				zoreigii.	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	kno'r
(Total	595	391	91	60	36	4	1	2	1	
onia	Males	310	211	45	27	19	2	1	2		
	Females.	285	180	46	33	17	2			1	
1	Total	80	18	17	9	5	10	18			
(oscob <	Males	44	7	8	7	3	5	13			
.OBCO	Females .	34	11	9	2	2	5	5			
i	Unknown	2							 		l
	Total	123	84	16	12	2			6	3	
sabeilab	Males	67	43	10	7	2		ļ	3	2	
l	Females.	56	41	6	5		 		3	1	
!	Total	713	467	133	54	45	5	1	3	1	
To observ	Males	346	229	63	30	19		1	1	1	İ
Jackson	Females.	366	238	70	23	26	5	 -	2		
į	Unknown	1			1						
1	Total	632	370	170	54	27	7	1	2	1	
Talamana	Males	309	188	74	30	18	3		1		
Kalamazoo	Females .	320	180	96	24	14	3	1	1	1	
Į.	Unknown	3	2				1				
f	Total	65	41	10	11	2			1		
Kalkaska	Males	37	24	5	6	1	 .	 .	1		
	Females .	23	17	5	5	1					 -
ſ	Total	1,528	615	602	184	98	2	1	4	1	؛
7	Males	788	303	322	101	46	 -		1	1	• 1
Kent	Females	735	812	278	83	51	2	1	3		
	Unknown	5		2		1					
1	Total	214	7	166	13	1	1	1	1		۱ :
Kewecnaw	Males	121	4	96	7			1		ļ	,
l	Fomales	93	3	70	6	1	1		1	ļ. .	:
1	Total	59	37	7	4	6	1	 -	1]
Lake	Males	25	15	4	1	3			1		
i	Females	34	22	3	3	3	1	 		 -	
1	Total	491	189	148	71	54	7	8	4	7	1
	Males	266	103	80	48	24	3	5	1	1	1
Lapcer	Females	224	86	67	23	80	4	8	3	8	1
	Unknown	1		1						-\	
• "Native" incl		<u>-</u>	•	-		Those	<u> </u>	•	•		-bph

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

					NATIVITA	Y OF P	ARENT	s.—187	74.0		
		Children			Pando	Ponelen	Мотив	r Unk.	FATHE	e Unk.	
COUNTIES.	SEX.	Born, 1874.	Both	Both	Foreign Father and	Foreign Mother and	Fat	her.	Mot	her.	Both Un-
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For. eign.	knoʻn.
	Total	112	28	68	7	8				1	
Leelanaw	Males	56	17	30	4	4				1	
	Females	56	11	38	3	4					
	Total	723	476	141	60	33	3	1	7		2
Lenawee	Males	385	253	76	36	13	2	 	3		3
	Females	338	223	65	24	20	1	1	4		
	Total	406	290	49	37	26		 .	3	 	1
Livingston	Males	187	129	25	19	13		 -	1		
	Females	219	161	24	18	13		 -	2		1
	Total	48	18		8	1	3	 -	1	 	23
Mackinac	Males	30	13		2		2				13
Mackinac	Females	17	5		1		1		1		•
	Unknown	1				1					
	Total	608	223	263	60	55	3	ļ	2	1	1
Macomb	Males	319	122	131	31	32	1	ļ	1	1	
ALACOMO	Females	288	101	131	29	23	2	ļ	1		1
	Unknown	1		1				ļ			
	Total	297	50	198	22	7	5	10	2	2	1
Manisteeb	Males	145	26	97	10	4	4	3		1	
	Fomales	152	24	101	12	3	1	7	2	1	1
	Total	30	3	23	3			1			
Manitou	Males	14	1	10	2			1	ļ	 	
	Females	16	2	13	1	ļ		ļ			
	Total	891	87	711	65	22				5	1
Marquette	Males	453	53	354	29	12		ļ		4	1
	Females	439	84	357	36	10		 	ļ	1	
	[Total	140	60	41	20	6	ļ	2		ļ	11
Masonb	Males	68	26	22	9	4		2			5
	Females	72	34	19	11	2		ļ			6
	Total	268	148	65	24	30		ļ			1
Mecosta	Males	134	74	36	11	12	 			 	1
	Females	134	74	29	13	18	 :	 -			
	Total	11	4	5	2						
Menominee	Males	4	2	1	1			ļ. .			
	Females	7	2	4	1						
		1	•	ı		1		i	1	ı	•

^{*&}quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." b Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

					NATIVI	TY OF P	AREN	Ts.—18	74.		
		Children			Foreign	Foreign	Mora	RUNK.	FATHE	R UNK.	
COUNTIES	SEX.	Born, 1874	Both Native.	Both Foreign.	Father and	Mother and	Fat	her,	Mot	her.	Both Un-
			Mative	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	kno'i
	Total	158	92	38	21	15		2			ļ
	Males	81	40	16	15	9		1			
Midlandb	Females	76	42	22	6	6					
	Unknown	1						1			
	Total	25	3	13	5	2		1		1	
fissaukce	Males	18	2	7	5	2		1		1	ļ
!	 Females	7	1	6							
	Total	771	499	146	81	41	2		1		
_	Males	386	259	7 0	34	21	2				 -
Monroe	Females .	382	239	76	45	20			1	 .	1
	Unknown	3	1		2						ļ
	Total	413	272	64	32	31	2		2		:
	Males	223	146	37	16	14	2		1		
Contcalm	Females	188	124	27	16	17			1		ł
	 Unknown	2	2								
	Total	471	126	225	68	28	3	7	1	5	
	Males	241	66	114	37	15	2	1	1	1	1
Luskegon	Females	229	60	111	31	13	1	5		4	
	 Unknown	1						1	 		ļ
	(Total	166	97	23	24	12	4	1	2		
	Males	83	53	12	7	4	4	1			
Sewnygo b	Females	82	43	11	17	8		 .	2		
	Unknown		1				l				
	(Total	552	320	99	67	33	12	12	5	3	
Dakland	Males	276	156	54	39	15	7	8	3	 	
/mm-84444	Females	276	164	45	29	19	5	9	2	3	
	(Total	249	162	49	18	13	1	2	2	1	
oceana	Males	125	85	21	8	7	<u> </u>	2	<u></u> -	1	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 Females	124	77	28	10	6	1		2		
	Total	91	8	65	10	4		2	2	<u></u>	
Ontonagon	Males	45	5	30	6	3		1	ļ		
-	Females	46	3	35	4	1		1	2		
	•	210	95	76	15	12	6	1	1		
	Total		53	36	7	8	1 4	1	١ .		
Osceola	Males	109	1	l .	Ĭ	i	_	1	[
	(Females.	101	42	40	8	4	2	8	1		1

a "Native" includes only those born in the United Season in which the birthplace was returned as "America" were compiled with i resented by returns of births, for which see Tabi-

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

					NATIVI	Y OF P	ARENT	s.—187	4.		
		Children			Foreign	Foreign	Мотн	R Unk.	FATHE	r Unk.	D . 43
COUNTIES.	SEX.	Born, 1874.	Both	Both	Father and	Mother and	Fat	her.	Mot	her.	Both Un-
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	kno'n.
1	Total	872	485	267	77	36	2		2	1	2
Ottawa	Males	467	254	144	41	24	1		2	٠1	
	Females	405	231	123	3 6	· 12	1				2
(Total	22	1	21					•		
Presque Isle	Males	10		10							
	Females	12	1	11							
!	Total	1,355	879	703	162	79	2	1	8		26
Saginaw	Males	710	904	863	91	41	1	1			9
Sagina w	Females	643	175	339	71	38	1		3		ede 16
	Unknown	2		1	ļ						1
	Total	520	53	346	69	48	1	1	1		2
Sanilac	Males	204	29	194	38	31		1			a 1
	Females	226	24	152	30	17	1		1		1
!	Total	49	11	29	6	2					1
Schoolcraft	Males	29	6	17	4	2			•••••		
i	Females	20	5	12	2	 					. 1
i	Total	453	297	93	36	25			1		1
Shiawassec	Males	230	150	50	17	13					
i	Females	223	147	43	19	12			1		1
(Total	1,614	194	523	151	81	27	85		1	2
a. a	Males	526	99	268	82	43	16	17		1	
St. Clair	Females	486	95	254	69	38	11	18			1
i	Unknown	2		1							1
1	Total	440	340	63	23	9			3		2
St. Joseph	Males	242	186	35	16	3	 				2
1	Females	198	154	28	7	6	 		3		
	Total	427	189	127	56	49	1		3		2
Tuscola	Males	226	107	66	27	23			1		2
1	Females .	201	82	61	29	26	1		2		
	Total	516	404	32	55	16	2		2	1	4
Van Buren	Males	272	217	14	27	8	 		2	1	3
	 Females	244	187	18	28	8	2				1
	(Total	666	325	190	97	34	7	4	2	1	6
Washtenaw	Males	337	153	108	50	20	1	1		1	3
	Females	329	172	82	47	14	6	3	2		3

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." bExcept of townships not represented by returns of births, for which see Table XXI. «1 Father "America." «1" North America." «1" America."

TABLE VI	I.—Continued.—	-Births bu	Counties.	Parent-Nativity.	and Sex.
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	1				Nativi	TY OF I	PAREN	TS.—19	374.4		
	Ì	Children			Foreign	Foreign	Мотн	ER UNK.	FATHER UNK		ı
COUNTIES.	SEX.	Born, 1874	Both	Both	Father and	Mother and	Father.		Mother.		Both Un-
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	For-	kno'n.
	Total	4,354	652	1,684	467	209	236	763	51	131	161
W	Males	2,289	338	887	241	96	124	·405	34	b 80	c 84
Wayne	Females	2,055	312	793	226	113	112	•358	b 17	f 51	d 78
	Unknown	10	2	4							4
	Total	60	41	9	5	5					
Wexfords	Males	32	20	5	3	4		 			
(,	Females	28	21	4	2	1					

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown." b 1 Father "America." c 9 "America," 19 Father "America," and 3 Mother "America." d 1 "America," 15 Father "America," and 6 Mother "America," at 6 Mother "America." f 4 Father "America." s Except of townships not represented by returns of births, for which see Table XXI.

In the "Sixth Registration Report"-Vital Statistics of Michigan, 1872on pages 54-55, the compiler made a quotation from "Population,-Its Law of Increase," by Nathan Allen, M. D., LL. D., of Lowell, Mass., concerning the comparative number of children born of American and of foreign-born parents, as follows: "If we compare the number of children born by the strictly American, with that of the Irish, the Scotch, the English, and the German, the difference is surprising. We find the latter, both in Europe and in this country, have on an average two, if not three times as many as the former, even though both classes may live in the same locality and under the same general influences. Again, if we make the comparison between the present generation in New England and their ancestors living one hundred years ago, we find the number of children at that period averaged two or three times as many as in the same number of families at the present day." The compiler remarked that he did not know upon what evidence these statements rest. Since publishing that, however, the compiler has received from Dr. Allen the following: "As to the birth-rate in New England 50, 100, or 200 years ago, we have no accurate statistics like the Registration Reports of the present day, but no one has taken so much pains to get at the true facts as myself; and the results published have not been disproved nor disputed here to any extent, to my knowledge."

Dr. Allen also states that, in estimating the average number of children to each family, he made use of the town records of four selected towns in Massachusetts, which records contained statistics of the number of families and the number of children born. "Another mode, was genealogical records for several generations. We have many such records published in books and journals."

The opinion of this eminent writer on this subject is valuable, he having devoted many years to the careful study of questions appertaining to social science and the laws of life.

In the Vital Statistics of Michigan 1872, pages 55 to 68, an effort was made to show, from the returns of births in this State, the average ultimate number of children to each woman aged fifteen to forty-five years; and a comparison was attempted with some similar statistics in other States and countries. The evidence in this State is quite meagre, and in last Report the subject was only mentioned, in connection with Exhibits I and J, which supply the basis for an estimate, as explained in the Report for 1872. In order to be able to ascertain with greater certainty the average ultimate number of children to a mother we need to have facts stated in the returns which are not now called for under the law. In Rhode Island the returns show the "Number of the Child, of the Same Mother," and a study of the statistics in that State has yielded results of interest in this connection.

EXHIBIT 1.—Showing, for the City of Providence (R. I.), the number of Mothers who bore their first, second, third, etc., Child in 1878, the number of Children which each class of these Mothers would probably bear subsequently to 1878; the number they had probably borne previously to 1878.

CHILDREN BORN PRE- VIOUSLY TO 1878.			CHILDREN TO BE BORN AFTER 1878.															_		
		NUMBER OF THE CHILD.																		
Total.	No.	1.	2	3,	4.	5.	6,	7.	8.	9.	10.	11.	12,	13.	14.	15,	16.	17.	18,	Total
	1,	529	520	456	357	229	198	122	91	49	38	13	16	5	2			1	1	2,09
520	2.	520	520	456	357	229	198	122	91	49	38	13	16	5	2			1	1	1,57
912	8.	456	456	456	357	229	198	122	91	49	38	13	16	5	2			1	1	1,12
1,071	4.	357	357	357	357	229	198	122	91	49	38	13	16	5	2			1	1	76
916	5.	229	229	229	229	229	198	122	91	49	38	13	16	5	2			1	1	53
990	6.	198	198	198	198	198	198	122	91	49	38	13	16	5	2			1	1	33
732	7,	122	122	122	122	122	122	122	91	49	38	13	16	5	2			1	1	21
637	8.	91	91	91	91	91	91	91	91	49	38	13	16	5	2			1	1	12
392	9.	49	49	49	49	49	49	49	49	49	38	13	16	5	2			1	1	7
342	10,	38	38	38	38	38	38	38	38	38	38	13	16	5	2			1	1	3
130	11.	13	13	13	13	13	13	13	13	13	13	13	16	.5	2			1	1	2
176	12.	16	16	16	16	16	16	16	16	16	16	16	16	_5	2			1	1	
60	13.	5	5	5	5	5	5	5	5	5	5	5	5	5	2			1	1	
26	14,	2	2	2	2	2	2	2	2	2	2	2	2	9	9			1	1	
	15.			****	****		****	****				.,			***			1	1	
	16,					****												1	1	5
16	17.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 :
17	18,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6,937		=	-		-		-	Tota	=-	diago	onal	line.	for	hild	ren	born	in 18	178=5	2,627.	6,93

^{*} Number of the child born in 1878.

Exhibit 1 is a new one, planned to show the ultimate number of children to an average mother, based upon the statistics of the city of Providence (R. I.) for a single year. In Table V., page 9, of the "Twenty-fourth Annual Report upon the Births, Marriages, and Deaths in the City of Providence, for the year 1878," is stated the number of children borne by mothers who bore their first, second, third, etc., child in 1878; and using this as data, the exhibit is made. At the right of the zigzag line crossing the 18 columns are placed the numbers, in their proper columns, showing the number of children to be borne after 1878 (at the rate in 1878) by the mothers who bore children in 1878. These numbers are footed out to the right, and placed in the last column to show the number of children to be borne after 1878 by each class of mothers. The footing of this column shows the total number of children to be borne after 1878 by all the mothers who bore children in 1878 to be 6,937. At the left of the zigzag line are placed the numbers, in their proper columns, showing the number of children borne previously to 1878 (at the rate in 1878) by these same mothers who bore children in 1878. These numbers are footed out to the left, in the total column, to show the number of children borne previously to 1878 by each class of mothers. The footing of this column shows the total number of children borne previously to 1878 by these same mothers who bore children in 1878 to be 6,937; and the footing of the zigzag line through the several columns shows the number of children born in 1878 to be 2,627. By adding together the number to be borne after 1878 (6,937), the number borne previously to 1878 (6,937), and the number borne in 1878 (2,627), we obtain the aggregate number of children which those mothers who bore children in 1878 will probably have borne in a life-time (16,501). The number of twin births among these children born in 1878 was 30; subtracting this number from the number of children born in 1878 (2,627) we obtain 2,597 as the number of mothers who bore children in 1878. If 2,597 mothers will have borne 16,501 children in a life-time, the average ultimate number of children which an average mother will have borne in a life-time will be: $16,501 \div 2,597 = 6.35.$

On pages 58 and 64, Vital Statistics of Michigan 1872, the compiler has expressed the view that the number of children already borne by the mothers in the community, multiplied by two will give the ultimate number of children to such mothers, because they may be supposed to be, on an average, one-half through child bearing. A closer study of the subject reveals a necessity for a slight modification of the statement. This may be stated in the form of a rule, as follows:—

Rule for ascertaining the ultimate number of children to an average mother: Given statements for an average or representative year,—Multiply by two the number of children already borne by the mothers in a community who bore children during the year; from this product subtract the number of children born in that year, and divide the remainder by the said number of mothers.

The following is a general solution of the problem. Its correctness depends on the validity of the assumptions in the series of propositions numbered "8."

- (1.) $m_1 + m_2 + m_4 + \dots$ the number of mothers who in any given year (or the average annual number who for a period of years) bore, respectively, their first, second, third, etc. child.
- (2.) $e_1 + e_2 + e_3 + e_4 + \dots$ = the number of children the mothers of each of these classes, respectively, may be expected yet to bear.

```
(3.) N=the number of children these mothers have already borne.
(4.) U=the average ultimate number of children to a mother.
(5.) M=m<sub>1</sub>+m<sub>2</sub>+m<sub>3</sub>+m<sub>4</sub>+m<sub>6</sub>+.....
(6.) N=m<sub>1</sub>+2m<sub>2</sub>+3m<sub>3</sub>+4m<sub>4</sub>+5m<sub>5</sub>+6m<sub>6</sub>+.....
(7.) E=e<sub>1</sub>+e<sub>2</sub>+e<sub>3</sub>+e<sub>4</sub>+e<sub>5</sub>+.....
(8.) {e<sub>1</sub>=m<sub>2</sub>+m<sub>3</sub>+m<sub>4</sub>+m<sub>6</sub>+....=M-m<sub>1</sub>, e<sub>2</sub>=m<sub>3</sub>+m<sub>4</sub>+m<sub>6</sub>+m<sub>6</sub>+....=M-m<sub>1</sub>, e<sub>1</sub>=m<sub>2</sub>+m<sub>3</sub>+m<sub>4</sub>+m<sub>6</sub>+m<sub>7</sub>+....=M-m<sub>1</sub>, e<sub>n</sub>=m<sub>n+1</sub>+m<sub>n+2</sub>+....=M-m<sub>1</sub>+m<sub>2</sub>+m<sub>3</sub>), e<sub>n</sub>=m<sub>n+1</sub>+m<sub>n+2</sub>+....=M-m<sub>1</sub>+m<sub>2</sub>+m<sub>3</sub>+m<sub>3</sub>).
(9.) E=M-m<sub>1</sub>+M-m<sub>1</sub>+m<sub>2</sub>+M-m<sub>2</sub>+m<sub>3</sub>+M-m<sub>2</sub>.
(10.) U=M+E/M, or U=M-M
```

By the following statement of the assumptions in equation 8 above, it may perhaps be more readily seen what they are. Assuming the given year, or the average year to be a representative section of the entire body of mothers, it may be supposed,—(1.) That of the m, women who in that year bore their first child, m, will bear a second child; m,, a third; m,, a fourth, and so on. (2.) That of the m, women who in that year bore their second child, m, will bear a third; m., a fourth; m., a fifth; and so on. (3.) That of the m, women who in that year bore their third child, m, will bear a fourth, and so on. Thus the number of children yet to be borne by the women of any class is equal to the number of women in all the higher classes for that year, or the number of women, bearing children in that year, each of whom has borne more than one woman of the given class. This solution assumes a woman bearing twins to be counted in two successive classes for the given year, the same as if two separate births had occurred to her during the year; when the enumeration is not thus made, a person knowing how it is made can modify the solution accordingly.

More than a single year must be studied in order to reach any general conclusions. In Exhibit 2 the data for twenty years in Rhode Island are tabulated in such manner as to show the expectation, and the average ultimate number of children to a mother of each class, the mothers being classified with reference to the number of children they have already borne. It will be seen that, as an average statement, each woman who bears one child may be expected to bear three other children; also that the average ultimate number of children, to all classes of mothers, is 5.91, which is a little less than is shown in the other exhibit relative to the single year. Because of a little uncertainty as regards twin children, and for reasons stated on page 63, Vital Statistics of Michigan, 1872, it is possible that the results shown in Exhibit 2 may not be the exact and entire truth for the existing population in Rhode Island, even though the statistics embrace the period of twenty years, but they are probably very near the truth.

EXHIBIT 2.—Average Ultimate Number of Children to a Mother, etc., (Compiled from Rhode Island Statistics for Twenty years—1857-1876.)

Class (According to Number of Chil- dren Borne by each Mother.)	Births in Rhode Island, 20 Years, 1867-76.*	Average Number of Mothers per Year, 20 Years, 1857-76.	Number of Chil. dren each of these Mothers has Al- ready Borne.	Children Already Borne by all the Mothers of each Class.	Children to be Rorne by the Mothers of each Class.—Total "Ex-	Total Number of Children to the Mothers of each Class.	Average Ultimate Number of Chil- dren for the Moth- ers of each Class.	Average Number of Children yet to be Borne by one Mother of each Chan.—Individual "Kxpectation."	Successive Differ- ences.
1	24,405	1,220.25	1	1,220.25	3,666.20	4,886.45	† 4.00	3.00	
2	19,845	992,25	2	1,984.50	2,673.95	4,658.45	4.09	2.69	.81
3	15,365	758,25	3	2,304.75	1,905.70	4,210.45	5.48	2.48	.21
4	11,468	573.15	4	2,292,60	1,332.55	3,625.15	6.32	2.32	.16
5	8,542	427.10	5	2,135.50	905,45	3,040.95	7.12	2.12	.90
6	6,120	306,00	6	1,836,00	599,45	2,435.45	7.96	1.96	.16
7	4,310	215.50	7	1,508.50	383,95	1,892.45	8.78	1.78	.18
8	2,908	145.40	8	1,163.20	238,55	1,401.75	9,64	1.64	.14
9	1,950	97.50	9	877.50	141.05	1,018.55	10.45	1.45	.19
10	1,254	62.70	10	627.00	78.35	705.35	11.25	1.25	.20
11	707	35.35	11	388.85	43,00	431.85	12.22	1.22	.03
12	423	21.15	12	253,80	21.85	275.65	13.03	1.03	.19
13	203	10.15	13	131.95	11.70	143,65	14.15	1.15	12
14	109	5.45	14	76,30	6.25	82.55	15, 15	1.15	0
15	57	2.85	15	42.75	3.40	46.15	16, 19	1.19	04
16	28	1.40	16	22.40	2.00	24.40	17.48	1.43	24
17	22	1,10	17	18.70	0.90	19.60	17.82	1.82	39
18	6	.30	18	5,40	0.60	6.00	20,00	2,00	18
19	5	.25	19	4.75	0.35	5.10	20,40	1.40	.60
20	3	.15	20	3.00	0.20	3.20	21.33	1.33	.07
21	2	.10	21	2.10	0.10	2.20	22.00	1.00	.33
22	2	.10	22	2,20	0.00	2.20	22.00	0,00	1.00
	97,729	4,886.45		16,902.00	12,015.55	28,917.55	‡5.91		

^{*&}quot;Does not include all the children recorded in the period named, as in every year there are more or less children of whom the 'number of the child' is not given." The number of plurality-births during this period and the method of their enumeration not being known to the compiler of this table, he has assumed all to be single births, or that the mother was counted once for each child. One knowing the facts in the case could easily modify the work to accord with the known facts.

† Average ultimate number to each woman who becomes a mother.

† Ultimate number to an average mother, in the existing population.

TWIN CHILDREN.

The order of the years 1870-1874, those having the least number of births of twins first, is as follows: 1871, 298; 1870, 339; 1872, 342; 1874, 408; 1873, 420; this is also the order of the years for total births.

The month of August shows the largest number of births of twins, and January the smallest, as is also the case with total births.

TABLE IX.—Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been born in Michigan during the Year 1874, by Months arranged in order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.

	YEAR	Ne	MBER OI	r Twin	CHILDI	EN.		Numbi	R OF P.	AIRS OI	Twins	, 1874	
	AND MONTHS.	Total.	Males.	Fe- males,	Un- kno'n,	Males to 100 Fe- males.	Total	Males.	Fe- males.	One of Each Sex.	Un- kno'n.	Males to 100 one of each Sex.	Males to 100 Fe- males.
Year	r, 1874	816	427	385	4	111	408	137	116	153	2	90	118
÷ 4	August	98	44	54		81	49	15	20	14		107	75
i vin	May	88	52	36		144	44	16	8	20		80	200
a co	July	76	37	37	2	100	38	12	12	13	1	92	100
More than the average No. of twing.	November	70	34	36		94	85	10	11	14		71	91
20 20	February	68	37	31		119	34	12	9	13		92	133
Ave	rage per month	68,0	35.5	32.0	.3	111	34.0	11.4	9.6	12.7	.9	90	118
_ (December	66	40	26		154	83	14	7	13		117	200
e average twine.	April	64	35	29		121	32	11	8	13		85	138
e i	October	62	24	38		63	31	4	11	16		25	36
38	September	60	25	35		71	30	8	13	9		89	62
than number	March	58	40	18		222	29	16	5	8		200	320
Loss t	June	58	33	23	2	143	29	12	7	9	1	133	171
፯	January	46	24	22		109	23	6	5	12		50	120
Unk	nown	2	2			 	1	1		 	 		

[.] Includes unknown month.

The influence of parent-nativity on the twin birth-rate may be studied in Table X., which shows that the largest proportion of pairs of twins was born of parents who were both native-born; but the twin birth-rate is greatest among the foreign-born. By Exhibit I. it may be seen that the proportion of foreign-born inhabitants in 1870, aged 15 to 45 years, was only 30.25 per cent. of all inhabitants at those ages, and by Table X. it may be seen that the proportion of pairs of twins born of foreign-born parentage was 38.97, thus indicating the larger twin birth-rate among the foreign-born. There is further and direct evidence on this subject in Exhibits 5 and M, on following pages.

TABLE X.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1874.

				PAIR	s of 7	cwins,	1874.			
NATIVITY OF PARENTS.			Number				ENT. OF O TOTAL			
	To- tal.	Malos.	Fe- males.	One of Each Sex.	Un- kno'n.	To- tal.	Malos.	Fo- males.	One of Each Sex.	Un- kno'n.
All Nativities	408	137	116	153	2	100.00	100.00	100.00	100.00	100,00
Both Native	163	61	42	59	1	39,96	44.53	36,21	88.56	50,00
Both Foreign	159	48	45	65	1	88.97	35.04	88,79	42.48	50.00
Foreign Father and Native Mother	48	19	12	17		11.76	18.87	10.34	11.11	[
Foreign Mother and Native Father	23	6	9	7		.54	4,38	7.76	4,58	
Unknown Mother, Father Native	6	2	2	2		1.47	1.46	1,79	1.31	
Unknown Mother, Father Foreign	6		4	2		1.47		8.45	1.31	
Unknown Father, Mother Native									 .	
Unknown Father, Mother Foreign	1		1			.24		.86	•••••	
Both Unknown	8	1	1	1		.74	.73	.86	.65	
One or Both Native	239		65	85	1	58,58	64.23	56,03	55.56	50,00
One or Both Foreign	236	73	71	91	1	57.84	53,29	61.21	59.48	50.60

Exhibit 5 shows, by nativity and color, for each of the years 1871-1874, what proportion of the total number of mothers bore twins. The largest proportion is shown for the year 1874, the next largest for 1872, the next for 1873, and the smallest for 1871. Of the nativity, the largest proportion of twin-bearing mothers is shown for the foreign-born, for each of the years 1871-1874. This is in accordance with the statement on a previous page that the twin birth-rate is greatest among the foreign-born.

The evidence of this Exhibit also goes to show that, in 1874, among the Indians the proportion of twins is greatest, and among the African race the proportion is the same as among the white inhabitants.

EXHIBIT 5.—By Nativity and by Color of Mothers, the Number and Proportion of Twins Returned as having been Born in Michigan during the Years 1871, 1872, 1873, and 1874.

		1871.			1872.			1878.			1874.	,
NATIVITY AND COLOR OF MOTHERS.	Number of Palm of Twine.	Whole No. of Mothers, including those of Twine.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twins.	Whole No. of Mothers, including those of Twing.	Per Cent. of Burths of Twins to all Mothers.	Number of Pairs of Twine.	Whole No. of Mothern, including those of Twine.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twine.	Whole No. of Mothers, including those of Twine.	Per Cent. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativities.	83	88 ,08	1.16	342	179'13	1.24	• 431	34,180	2,	807	35,735	1.88
All Native Mothers	168	13,496	1.10	380	15,450	1.16	8	19,546	1.13	112	16,453	1.28
All Foreign Mothers	114	10,141	1.12	250	11,015	1.36	196	13,882	1.43	195	12,210	1.49
Mothers of Unknown Nativities	8	2,061	1.78	51	1,167	1.08	•	£	8.	15	2,077	27.
White	ă	25,255	1.16	387	27,188	1.24	217	32,424	18	10#	30,238	1.33
Black	-	186	ą.	63	181	2.48	n	2	2.14	1	145	28.
Mulatto	69	31	6.45		2			100		61	18	2.47
Indian	•	138	2.27	7	8	3		191		20	921	2 16
Unknown	•	#	2.00	-	707	æ.	_	252	8i	-	981	7 .
Black and Mulatto		216	1.39	8	88	1.67	n	243	1.8	8	955	1.33

This table differs from all other tables of twins for 1873 by two half pairs added to match the two odd half pairs returned and compiled.

b 1 "Colored" and 1 "Negro."

Exhibit M contains the same data concerning twins that Exhibit H contains concerning total births, and shows the twin birth-rate, by nativity, for each of the years 1870-1874, based upon the population in 1870 and the births of twins in each of the years 1870-1874. This exhibit furnishes direct evidence of the great twin birth-rate among the foreign-born, and shows that for the five years embodied in the exhibit, the twin birth-rate among the foreign-born is from two to three times as large as among the native-born.

By Table XI. it may be seen that about 52 per cent. of the twins born in Michigan in 1874 were born of parents who were natives of the same State or country.

EXHIBIT M.—Parent-Nativity of Twins born in Michigan during the Years 1870, 1871, 1872, 1873, and 1874,—Relation of Native and Foreignborn Parents to Native and Foreign-born Population.

NATIVITY OF PARENTS	NATIVE A			PAREN			ins Bo 73, ani		₹ 1870	, 1871,
OF TWINS, AND NA- TIVITY OF IN-		OPULAT E 1, 1870	-	Years of	3	Numbei	R.	TO P	OPULAT	ARENTE FION OF ND NA-
HABITANTS.	Total.	Males.	Fo- males.	Birth.	Both Par- ents.	Fa- ther.	Moth- er.	Both Par- ents.	Fa- ther.	Moth- er.
All Nativitiesb	1,158,156	603,655	554,511	ſ	620	810	810	.05	.05	.06
Native	904,740	463,422	441,318	1870	377	183	194	.04	,04	.04
Foreignc	253,426	140,233	113,193	{	243	127	116	.10	.09	.10
All Nativitiesb	* 1,147,234	597,768	549,466	۱ ۱	524	262	262	.05	.04	.06
Native	894,202	457,914	436,288	1871	288	140	148	.03	.03	.03
Foreign	253,032	139,854	113,178	{	236	122	114	.09	.09	.10
All Nativitiesb	a 1,169,283	609,946	559,337	۱ ا	654	327	327	.06	.05	.06
Native	908,625	165,386	443,230	1872	346	167	179	.04	.03	.04
Foreign	260,658	144,560	116,098	(308	160	148	.12	.11	.13
Ali Nativitiesb	a 1,179,082	615,228	563,854	ſ	830	415	415	.07	.07	.07
Native	915,366	468,888	446,478	1873	445	224	221	.05	.05	.06
Foreign	263,716	146,340	117,373	{	885	191	194	.15	.13	.17
All Nativities	1,180,353	616,109	564,244	ſ	784	302	392	.06	.06	.07
Native	915,679	469,105	446,574	1874	396	185	211	.04	.04	.05
Foreign	264,674	147,004	117,670	(388	207	181	.15	.14	.15

Population 1870 represented by births in the respective years of births.
 Excludes parents of unknown nativities.
 Excluding cases where nativity of either parent is unknown.

TABLE XI.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1874,—distinguishing between Parents Natives of the Same State, and those born in Different States or Countries.

			•	PAIR	8 OF 7	'WINB,	1874.			
NATIVITY OF PARENTS.		1	Number	•				EACH P		
	Total.	Males.	Fe- males.	One of Kach SEX.	Un- kno'n.	Total.	Malca.	Fe- males.	One of Each SEX.	Un- kno'n
All Nativities	408	187	116	153	2	100.00	100.00	100.00	100.00	100,00
Same American State or Foreign Country	• 212 110	1	• 59 28	84	-	51.96 26.96				
Foreign Father and Native Mother.	48	l	12	17		11.76				
Foreign Mother and Native Father	22	6	9	7		5.39	4.88	7.76	4,58	
Unknown Mother, Father Native	6	2	2	2		1.47	1.46	1.72	1.81	
Unknown Mother, Father Foreign	6		4	2	 	1.47		8.45	1.81	
Unknown Father, Mother Native									 	
Unknown Father, Mother Foreign	1		1			.25	 .	.86		
Both Unknown	3	1	· 1	1		.74	.78	.86	.65	
Different States or Countries	180	66	49	64	1	44,12	48.18	42,24	41.83	50.00

a Includes 2 pairs returned "Europe."

b Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country."

TABLE XII.—Exhibiting for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1874. Nativity Stated by Pairs of Twins.

					NATI	VITY	of P	ARE	NTS	OF T	WIN	8.—1	874.n		
STATE		al a	wins.	NAT	rive.	Fo	REIG	٧.	Na-	Na-		HER NK.	FAT		Ī
AND COUNTIES.	SEX.	ndividus	airs of T	from le.	Different	ame	rent.	untry.	n Father and live Mother.	ther and	Fat	her.	Mot	her.	4.0
COUNTIES.		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Differ States.	Both from Same Country.	From Different Countries.	Unknown Country.	Foreign Father tive Moth	Foreign Mother and tive Father.	Native.	Foreign.	Native,	Foreign.	Roth Palmount
	f Total	816	408	82	81	128	29	2	48	22	6	6		1	1
	Males	427	137	b 28	c 33	d 40	48		e 19	6	12				ı
State	{ Females	885	116	g 20	22	ь 37	6	19	112	9	2	4		1	l
tate	One of each.		153	k 34	1 25	m 50	n15		17	7	2	2			١
	Unknown	4	2		1	1									ŀ
	(Total	2	1				1								1
	Males	1													l.
Alcona	Females	1													Į.
	One of each.		1				1								1
	[Total	30	15	5	2	4	1		2	1					1
	Males	19	6	2	1	1	1		1						ļ.
Allegan	Females	11	2	1			,			1					ŀ
	Une of each.		7	2	1	3			1						ŀ
	[Total	8	4	1		2			1						l.
Antrim	Males	8													į.
Antrim	Females	5	1						1						ŀ
	One of each.		3	• 1		2									ŀ
	Total	16	8	1	3	1	1		1	1					ŀ
2000	Males	9	3		1		d 1								ŀ
Barry	Females	7	1		1			****							1
	One of cach.		5	1	11	1			1	1					1.

[&]quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were complied with the "Unknown."

b 3 pairs still-born, 1 male still-born, and 1 pair male and unknown sex.

c 1 pair still-born, and 1 male still-born.

d 1 pair still-born, and 1 male still-born.

f 1 pair still-born.

g 1 pair mulatto, 1 pair black, and 1 female still-born.

h 1 female still-born.

1 pairs "Kurope."

1 pairs "Kurope."

1 pairs Indian, 2 pairs still-born, 1 male --
1 pair still-born, 2 males still-born, 2 male --
2 pairs still-born, 2 males still-born, --
3 male still-born, and 1 female still-born.

1 male still-born, and 1 female still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

			.0		NATI	VITY	of I	ARE	NT8	OF T	WIN	8.—1	874.		
		ila	Iwins.	NAT	IVE.	Fo	REIGS	¢.	Na-	Na-		THER		HER.	1
COUNTIES.	SEX.	nqiajpu	airs of	s from	erent	eme	Different ntries.	untry.	n Father and tive Mother.	ther and	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Differe	Unknown Country.	Foreign Fat	Foreign Mother and tive Futher.	Native.	Foreign.	Native.	Fore;gn.	The Ast Ast Ast
	[Total	14	7		2	4				1					
	Males	6	2		1				****	1					Į.
Вау	Females	8	3		1	2									1.
	One of each.		2			2									1.
Benzie	.Males	2	1				1								Į.
	Total	18	9		4	3			1	1					Į.
	Males	10	2		1	1									I.
Berrien	Females	8	1			1									I.
	One of each.		6		b 3	1			1	1					1.
	Total	8	4	1	2	1									J.
	Males	6	2		2										l.
Branch	Females	2													Į.
	One of each.		2	1		1									l
	[Total	8	4	1	1	2									1.
Calhoun	Males	2	1		1										1
	Females	6	3	. 1		2									1.
	Total	6	3	1	2										1
	Males	2													I.
Cass	Females	4	1		1										l.
	One of each.		2	1	1										į.
Berrien	Total	18	9	4		2			3						I.
	Males	13	5	2		1			4 2						Į.
Minten	Females	5	1						1						١.
· ·	One of each.		3	2		4 1									I.
	Total	24	12	2	10										1.
12.0	Males	14	5		5										1.
Eaton	Females	10	3	1	2										1.
	One of each.			1	3			1							1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were complied with the "Unknown."

b I unite still: born.
c I pair black.
d I pair still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

					NATI	VITY	OF P	ARE	NT8	OF I	CWIN	8,-1	874.		
		j.	ľwine.	NAT	IVE.	Fo	REIGN		Na.	Na-	Mot	HER K.	FAT	HER CK.	1
COUNTIES.	SEX.	Individu	Pairs of	ts from	Different ates.	Same y.	Different atries.	ountry.	n Father and tive Mother.	other and Father.	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Diffe States.	Both from Same Country.	From Differ Countries,	Unknown Country.	Foreign Father and tive Mother.	Foreign Mother an	Native.	Foreign.	Native.	Foreign.	A
	Total	8	4	1	2	1.									ľ
Secure of	Males	5	2		2										1
Genesee	Females	3	1			1									1
	One of each.		1	1											1.
	Total	4	2		1	1									1
	Males	3	1			1		****							1
Gr. Traverse	Females	1													1
	One of each.		1		1										1
	[Total	14	7	4	3										
2010	Males	10	4	b 3	1										1
Gratiot	Females	4	1		1										Į.
	One of each.		2	1	1										ļ.
	[Total	10	5		2					1	2				1
	Males	5	1		1										1
Hillsdale	Females	5	1		1										Į.
	One of each.		3							1	2				
	Total	14	7	1		5	1							1	Į.
40.4	Males	6	1			1									
iratiot	Females	8	2	1		1					****				1
	One of each.		4			3	1								1
	Total	10	5	2		2	1								Į.
	Males	3													Į.
Huron	Females	7	2	1		1									1
	One of each.		3	1		1	1								1
	Total	16	8	2	1	3	2								1.
	Males	7	3		1	1	1								
Ingham	Females	9	4	2		2									1
	One of each.		1				1								1.

 [&]quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were complied with the "unknown."
 1 male still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

					NATI	VITY	OF P	ARE	NTS	or 3	rwn	18.—	1874.	
		ds.	wins.	NAT	IVE.	Fo	REIGN		Na-	Na.		HEB (K.	FAT	HEB.
COUNTIES.	SBX.	ndividus	airs of 7	from te.	rent	эше	rent 8.	untry.	n Father and tive Mother.	her and	Fat	her.	Mot	her.
*		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.	Foreign Father tive Moth	Foreign Mother and tive Father.	Native.	Foreign.	Native.	Foreign.
	Total	8	4	1	2				1					
	Males	2												
lenia	Females	6	2		1				b1					
1	One of each.		2	ъ1	1									
	Total	2	1						1					
	Males	1												
losco	Females	1												
	One of each.		1						1					
	Total	4	2		1	1								
	Males	3	1		1									
sabella	Females	1												
	One of each.		1			1								
1	Total	8	4	2			2							
	Males	5	1	1										
Jackson	Females	3												
	One of each.		3	1			2							
	Total	26	13	5	3	3	1		1					
	Males	14	4	c 3		1								
Kalamazoo	Females	12	3	1		2								
	One of each.		6	1	3		1		1					
	Total	2	1				****		1					
	Males	1												
Kalkaska	Females	1												
	One of each.		1						1					
	Total	30	15	1	5	5			3	1				
	Males	13	4		1	1			2					
Kent	Females	17	6		3	2				1				
	One of each.		5	1	1	2			1					

^{• &}quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."
b 1 pair ".light."
c 1 pair still-bors.

TABLE XII.—Continued.—Parent-Nativity of Twins.

						IVITY								
	1	sla.	Iwins.	Na	rive,	F	BEIG	N,	Na.	Na.		THER NK.	FAT U	HER
COUNTIES.	SEX.	ndividu	airs of	from te.	rent	оши	Tent.	antry.	n Father and tive Mother.	her and	Fat	her.	Mot	ther.
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries,	Unknown Country	Foreign Father and	Foreign Mother at	Native.	Foreign.	Native,	Foreign.
	(Total	2	1				1							
According to	Males	1												
Keweenaw	Females	1												
	One of each.		1				5 1							
	[Total	2	1											
	Males	1												
Lake	Females	1												
	One of each.		1											
	Total	18	9	2	3	2			2					
	Males	14	6	2	1	1			2					
Lapeer	Females	4	1		1									
	One of each.		2		1	1								
	[Total	22	11	3	2	3			2	1				
	Males	6	1			1								
Lenawee	Females	16	6	1	9	2				1				
	One of each.		4	2					2					
	Total	16	8	3	1	9			1	1				
	Males	9	3	1	1					1				
Livingston	Females	7	2	• 1					1					
enawee	One of each.		3	1		2								
	Total	18	9	1	1	6	1							
	Males	12	4			4								
Macomb	Females	6	1			1								
	One of each.		4	1	b 1	1	1							
	(Total	6	3			3								
	Males	1												
Manistee	Females	5	2			2								
	One of each.		1			1								

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

					NAT	IVITY	OF I	PARI	ENTS	OF	Twi	NB.—	1874.	•	_
		ıla.	Iwins.	NAT	IVE.	Fu	REIGN		Na-	Nu-	Mor	HER K.	FATI	HER K.	
COUNTIES.	SEX.	ndividu	airs of	from ie.	rent	Same	rent	untry.	a Father and live Mother.	ther and	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Sa Country	From Different Countries.	Unknown Country.	Foreign Father and tive Mother.	Foreign Mother and tive Father.	Native.	Foreign.	Native.	Foreign.	1 10 11 10
	[Total	14	7		1	5			1						1
••	Males	10	4		1	2			1		****				ļ.
Marquette	Females	4	1			1									ŀ
	One of each.		2			2									1
	[Total	18	9	2	3	1			1	2					1
Macasta	Males	8	2		1					1	****				1
(ecosta	Females	10	3	2						1					١
	One of each.		4		2	1	****		1			****			1
	[Total	6	3						3						1
	Males	2	1						1						
	Females	4	2						2						
	[Total	20	10	6	2	1	****			1					
	Males	10	2	b 2											
MOBTOG	Females	10	2		1					1		****			-
	One of each.		6	c 4	1	1									1
	[Total	12	6	3	2	1									
	Males	7	3	• 3											
Mentcalm	Females	3	1			41									
	One of each.		1		- 1										-
	Unknown	2	1		1										Į
	[Total	6	3	1		1				1					1
	Males	8	1	1											1
Muskegon	Females	3	1		ļ	1									1
	One of each.		1	·	ļ	 				1					
Newaygo	Females	2	1			ļ			1						
	[Total	24	12	2	1	4	1		4						
	Males	16	6		1	2			13						
Oakland	Females	8	2	1		 	1								1
	One of each.		1 .	1		12	1		1						1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

b I male and I unknown sex. • I pair still-born. • I female still-born. • I pair color unknown.

f I male still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

					NATI	VITY	OF I	PARE	NTS	OF !	rwn	NS.—	1874.	_	
		ıls,	wins,	NAT	rive.	Fo	REIG	N.	Na.	Na-		THER NK.	FAT	HER KK,	
COUNTIES.	SEX.	ndlvídu	airs of T	from te.	rent	ame	rent	untry.	n Father and tive Mother.	ther and ather.	Fat	her.	Mot	her.	1
		Number of Individuals.	Number of Pairs of Twins,	Number of Pairs of Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.	Foreign Father tive Moth	Foreign Mother and tive Father.	Native.	Foreign.	Native.	Foreign.	Both Habmann
	(Total	4	2			1	1								
3-72-61	Males	3	1			1									1.
Oceana	Females	1													١.
	One of each.		1				1								1.
	Total	6	3		1	9									l.
	Males	2													١.
Ontonagon	Females	3													١.
	One of each.		3		1	b 2									1.
Osceola	.Females	2	1			1									L
	Total	22	11	5	2	1			1	2					L
	Males	8	2	2											İ.
	Females	14	5	2	2	1									l.
	One of each.		4	1					1	2					L
	Total	20	10	3	1	4			2						l.
	Males	11	3		1	2									I.
Saginaw	Females	9	2			1			1						1
	One of each.		5	e 3		0 1			1						
	(Total	18	9	1		5	9			1					
	Males	12	4			2	1			1					I.
Sanilac	Females	6	1			1									I.
	One of each.		4	d 1		2	1								
Schoolcraft		2	1			1									1
	(Total	12	6	2	1	1	1		1						1
	Males	11	5	61	1	1	1		1						ľ
Shiawassee	Females	1				100	ì								ľ
	One of each.		1	1											1
	[Total	34	17	3	1	7	3		2			1	111		1
	Males	17	5	2	1	1			1						1
St. Clair	Females	17	5	1		9			1	****	****	1			1
	10 1 march 10 kg		7			4	3		•			1		-	1
	One of each.	******	1	******			0						2		1-

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

1 pair still-born. • 1 pair Indian. • 1 male still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

					NATI	VITY	o f P	ARE	NTS	OF ?	CWI	(8.—	1874.)	
		퇴	wins.	NAT	IVE.	Fo	REIGN		Na.	Na-		THER NK.		HER ik.	
counties.	SBX.	Individua	airs of T	from le.	rent	Same .	rent	untry.	ther and Mother.	Mother and Father.		her.	Mot	her.	rn.
		Number of Individuals.	Number of Pairs of Twins,	Both Parents Same State	Both Parents fro Same State. From Different States.	Both from Sa Country.	From Different Countries.	Unknown Country.	Foreign Father and tive Mother.	Foreign Mo	Native.	Foreign.	Native.	Foreign,	Both Unknown.
	(Total	6	3	1		1			1						
	Males	4	1			1									
St. Joseph	Females	2													
	One of each.		2	61					1						
Tuscola	[Total	10	5	2	1				1						1
	Males	7	3		1				1						1 1
	Females	8	1	1											١
	One of each.		1	1											
	[Total	18	9	2	4					3					ļ.,
Van Buren	Males	8	4	1	2					1					ļ.,
	Females	10	5	1	2					2					J
	[Total	8	- 6	1	1	2	****								
	Males	5	2		1	1									ļ.,
Washtenaw	Females	8	1	0 1											J
	One of each.		1			1									
	[Total	156	78	4	6	33	8	2	10	4	4	5		1	1
	Males	78	26	2	12	d 13	2		4	1	b 2				I
Wayne	Females	81	30	1	2	8	5	. 2	3	2	2	3		1	1
-	One of each.		21	1	2	11	c 1		8	b 1		2			
	Unknown	2	1			b 1									
Wexford	Females	2	1		1										

TABLE XIII.—Occupations of Fathers of Twins born in Michigan during the Year 1874, according to the Returns.

OCCUPATIONS.	No. of Each.	OCCUPATIONS.	No. o Each
) P ALL OCCUPATIONS	408	Market-man	
		Mason	
Bakers	2	Mechanics	
Barber	1	Merchants	
Blacksmiths	6	Miller	1
Book Agent	1	Miners	1
Boot and Shoemaker	1	Mining Captain	l
Brick-maker	1	Moulder	ļ
Builder	1	Organ Tuner	1
Butcher	1	Overseer in Rock House	ļ
Butcher, Foreman	1	Painters	l
Darpenters	17	Painter and Glass-stainer	
Carpenter and Joiner	1	Patent Manufacturer	l
Digar-makers	2	Peddlers	1
Clerks	6	Physicians	1
Contractor	1	Policeman	
Dooper	1	Printers	
Day Laborer	1	Real Estate Dealer	1
Dentist	1	R. R. Agent	
Engineers	8	R. R. Laborer	
Expressman	1	R. R. Superintendent	1
Farmers	208	Sailors	
Farm Laborer	1	Saloon-keepers	
Pishermen	2	Sash and Door Manufacturer	1
Procers	4	Sawyers	1
Harness-maker	1	Sewing Machine Agent	1
Helper	1	Ship-carpenter	1
Hotel Clerk	1	Shoemakers	
Hotel-keeper	1	Soda-water Manufacturer	1
Iron Puddler	1	Soldier	i
Joiner	i	Stone-mason	1
Laborers	59	Tailors	
	1		Ì
Lamp-lighter	1	Teacher	
Light-house Keeper	1	Teamster	
Lumber Dealer	1	Tinsmiths	
Lumberman	1	Unknown	
Machinists	2	Wagon-makers	1

There were less triplets reported for 1874 than for any of the previous years 1870-1874, the number of triplet births for each year being: 1874, 2; 1873, 3; 1872, 5; 1871, 3; 1870, 4. Of the 6 triplet children in 1874, 2 were males, and 4 were females; of the 9 in 1873, 7 were males, and 2 were females; of the 15 in 1872, 3 were males, 9 were females, and of 3 the sex was not reported; of the 9 in 1871, 4 were males, and 5 were females; of the 12 in 1870, 8 were males, and 4 were females. A majority of the fathers of triplets were men whose occupation necessitates manual labor.

TABLE XIX.—Exhibiting the Details Concerning Triplet Children Born in Michigan during the Year 1874.

	TRI	PLET CHIL	DREN, 18	74.		PARENTS.	
COUNTIES.	Month of Birth.	Color.	Malos.	Fe- males,	Birth- place of Father.	Birth- place of Mother.	Occupat'n of Father.
Bay	April.	White.	1	2 2	Canada.	Canada.	Saloon. Farmer.

STILL-BIRTHS.

The number of still-births compiled for 1874 is considerably larger than for any previous year; but for the first time the still-births in the returns of births for 1874 have been made to compare with those in the returns of deaths, as they should, which has increased the number of still-births tabulated. This fact should be borne in mind in attempting any comparison of the number of still-births shown for the different years in Exhibit 6.

Exhibit 7 is valuable in showing the influence of parent nativity upon the births of still-born children. The evidence in this exhibit is that, as a rule, the foreign-born inhabitants produce the largest percentage of still-born children; and among the different races in 1874, the percentage of still-born children reported is greatest among the African race, and smallest among the Indians. The correction mentioned above does not vitiate the comparison of the different races, by years.

In each of the years 1870-1874 there is a large excess of males among the still-born children, the number of males to 100 females being as follows: 1870, 162.50; 1871, 162.96; 1872, 122.22; 1873, 180.70; 1874, 149.14.

EXHIBIT 6.—The Relation of Still-born to all Children Returned as having been Born in Michigan during the Several Years 1868 to 1874, inclusive, and of the Mothers of Still-born to all Mothers Returned as having Borne Children during each of the Years 1871, 1872, 1873, and 1874.

		TOTAL	BIRTH	s and s	TILL-BI	RTHS.	
CHILDREN AND MOTHERS.	1868.	1869.	1870.	1871.	1872.	1873.	1874.
All Children born	19,171	27,093	26,663	25,992	27,993	84,608	31,151
Still-born Children	- 46	- 141	- 74	a 88	- 3 01	a 848	464
Per Cent. of Still-born to Total	.23	.52	.28	.34	1.08	1.01	1.49
All Mothers				25,688	27,641	84, 180	30,789
Mothers of Still-born Children				A 86	a 293	• 363	454
Per Cent. of Mothers of Still-born Children to all Mothers		 		.33	1.06	.97	1.48

[·] As per returns of births.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during each of the Returns.

		1871.			1872.			1878.			1874.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still- births.	Whole No. of Mothers, including those of Buil. Brill.	Per Ct. of Mothers of Still-births to all	Mothers having Still- birtha	Whole No. of Mothers, including those of Still.	Per Ct. of Mothers of Still. births to all	Mothers having Still. births.	Whole No. of Mothers, including those of still-births.	Per Ct. of Mothers of Still. births to all	Mothers baving Still. births.	Whole No. of Mothers, including those of Still.	Per Ct. of Mothers of Still- births to all
Mothers of all colors and all nativities	88	889'93	8.	8	27,641	1.06	88	84,180	.97	454	80,739	1.48
All native mothers	\$	13,496	8.	146	15,459	8.	193	19,546	8.	214	16,452	1.30
All foreign mothers	*	10,141	ş	180	11,015	1.00	138	13,832	8.	176	12,210	1.44
Mothers of unknown nativities	31	2,061	85	25	1,167	8 4	•	808	57.	3	2,077	3.08 3.08
White	88	25,263	8.	88	27,188	1.06	817	28,424	98.	438	30,238	1.45
Black	-	186	\$	69	121	1.65	69	140	1.43	*	145	203
Kulatto	-	81	22		8		60	103	2.91	-	81	1.23
Indian		133	-		168			191		61	138	177
Unknown	H	11	1.30	ю	104	4.81	11	808	8.18	2	88	7.35
Black and Mulatto.	69	216	8.	69	8 2	111	10	243	98:	-	955	1.71

. 1 "African."

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and, by Sex and Month's, the Number of Still-births Returned as having Occurred in Michigan during the Year 1874.

		*11.5	Both Unknow	48	19	8	*
	ATHER USE.	Mother.	Foreign,	O1	-	_	-
874	P4 1	M	Native.	-	i	-	1
18, 1	MOTHER UNK.	Father.	Foreign.	9	93	G.	63
IRT	Mo	Fa	Native.	=	-	63	7
LL-B		ne 191	Foreign Moth	8	139	0	1
STI	-uN p	ner an other,	Boreign Fati	8	30	15	63
8 01			Unknown.	4		65	1
ENT	EIGN.	-uı	Different Cou	56	12	10	1
PAR	Foreign.	٠.	Same Country	111	3	2	6
OF			.latoT	147	81	99	10
VII	,	,895	Different Stat	13	36	85	2
NATIVITY OF PARENTS OF STILL-BIRTHS, 1874	NATIVE.		Same State.	96	99	150	q1
4	×		Total.	172	102	83	1
	F IN	*	Mother.	114	2	40	4
	PARENTS BORN IN MICHI-	40	Father.	96	92	31	9
			Unknown.	1	i	*	1
			December.	23	83	5	00
			November.	88	13	=	63
			October.	4	83	7	-
			September.	9	50	18	CI
1874.			Augual	83	23	18	64
CHB,			July.	69	65	13	*
MONTHS, 1874.			oune.	88	75	=	1
			May.	47	75	12	01
			JhqA	98	11	6	1
			March.	31	16	22	00
			February.	30	13	13	*
			January.	a	=	22	-
		Year, 1874.		191 .	P 261	d 175	88 .
		SEX.		Total	Males	Females 41	Unknown

5 pairs twins one of each sex, 4 pairs male twins, 1 pair sex unknown.
 2 illegitimates, 10 twin children, 1 Black, 1 "Colored," 1 Mulatto, 2 White and Indian, 1 color unknown.
 4 twin children, 1 Black, 1 "Light," 1 color unknown.
 1 illegitimate, 8 color unknown.

TABLE XV.—Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1874, of Parents who were Natives of the same, and of Different States or Countries.

			STILL-	BORN (CHILDRI	EN, 1874.		
NATIVITY OF PARENTS.		Numi	ER.			T. OF EA		
	Total.	Males.	Fe- males.	Un- kuo'n.	Total.	Malos.	Fe- males,	Un- known.
ALL NATIVITIES	464	261	175	28	100.00	100.00	100,00	100,00
Same American State or Foreign Country	a 220	133	77	11	47.41	50.57	44.00	39.25
Countries	99	51	42	6	21.84	19.54	24.00	21.4
Foreign Father and Native Mother	48	30	15	3	10.34	11.49	8,57	10.7
Foreign Mother and Native Father	29	19	9	1	6.25	7.28	5.14	8.5
Unknown Mother, Father Native	11	7	3	1	2.37	2.68	1.71	3.57
Unknown Mother, Father Foreign	6	2	2	2	1.29	.77	1.14	7.14
Unknown Father, Mother Native	1		1	 	.22		.57	}
Unknown Father, Mother Foreign	2	1	1	ļ	.43	.38	.57	
Both Unknown	48	19	25	4	10.34	7.28	14.29	14.25
Different States or Countries	176	100	66	10	b37.85	88.17	87.71	85.71
Native	172	102	63	7	86.99	38.93	86,00	25.00
Foreign	147	81	56	10	31.61	30.92	32.00	85.71

Includes 1 male and 3 females unknown country, returned "Europe." • Compare with same statement for twins in Table XI., page 49.

ILLEGITIMATE CHILDREN.

The number of illegitimate children returned as having been born in Michigan in 1874 is larger than for any previous year except 1873. The number for each of the years 1868-1874, and the per cent. to all children born, are shown in Exhibit 8. The largest number and per cent. of illegitimate children are shown for 1873, the smallest number appears for 1868, and the smallest per cent. for 1869.

Exhibit 9 contains data of the parent-nativity and color of illegitimate children returned for the years 1871, 1872, 1873, and 1874. The per cent. of mothers of illegitimates to all mothers is greatest among the foreign-born mothers, for each year except 1872, when the per cent. is slightly greater among the native-born; but in that year (1872) the per cent. of the unknown nativities is excessively large, which may account for the exception in 1872 to what seems to be a rule.

Among the different races, the per cent. of mothers of illegitimate children to all mothers, for each of the years 1871–1874, is greatest among the Indians, and least among the white inhabitants, the per cent. among the latter

very small. In 1874, the per cent. among the Indians was 6.47, against only .72 per cent. among the white inhabitants.

In every year except 1872, there was an excess of males among the illegitimate children, but not so large an excess as among the still-born children.

Table XVI. shows the number by month and by parent-nativity, by sex, the largest number appearing for the month of December, the smallest for August.

Table XVII. is a valuable one, though it would be more valuable if the census was nearer the time of the births. It shows, by sex, the illegitimate birth-rate among different races, for the year 1874. The largest per cent of illegitimate births to population appears for the Indians, the smallest for the white inhabitants. This is true of each of the years 1871, 1873, 1873, and 1874,—the only years for which the statement is made.

By Table XVIII. it may be seen that the nativity of more than four-fifths of the fathers of illegitimate children in 1874, was, as might be expected, not returned,—about 17 out of 100 being enumerated.

EXHIBIT 8.—The Relation of the Illegitimate Children to All Children Returned as having been born during the several Years 1868 to 1874, inclusive, and of Mothers of Illegitimates to All Mothers Returned as having Borne Children in Michigan, during each of the Years 1871, 1872, 1873, and 1874.

		Тота	L BIRTH	S AND I	LLEGITIM	ATES.	
CHILDREN AND MOTHERS.	1868.	1869,	1870.	1871.	1872.	1878.	1874.
All Children born	19,171	27,093	26,663	25,992	27,993	84,608	81,151
Illegitimate Children	104	137	155	183	199	316	236
Per Ct. of Illegitimate to total	.54	.51	.58	.70	.71	.91	.76
All Mothers				25,688	27,641	84, 180	30,739
Mothers of Illegitimate Children				181	195	814	236
Por Ct. of Mothers of Illegitimates to all Mothers	ļ			.70	.71	.92	.77

. 1 Black and Indian,

"African," 4 "Colored," 1 "Negro," b 1 "K White," 2 "K White," c 1 "Colored," a 2 "Copper-colored," 1 "Half-breed," been," and 1 "colored," 1 2 "Half Indian," and 1 White and Indian. R 4 White and Indian.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Megitimate Children Returned as having been Born in Michigan during each of the Years 1871, 1872, 1873, and 1874.

٠		1871.			1878.			1878.			1874.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Illegiti- mates.	Whole No. of Mothers, including those of Illegiti-mater.	Per Cent, of Mothers of Illegitimates to all Mothers.	Mothers having Illegiti- mates.	Whole No. of Mothers, including those of lilegiti-mater.	Per Cent. of Mothers of Illegitic mates to all Mothers.	Mothers having Illegiti- makes.	Whole No. of Mothers, including those of Illegiti-mates.	Per Cent, of Mothers of Hiegitic makes to all Mothers.	Mothers having lillegiti- matos.	Whole No. of Mothers, including those of Illegitimates.	Per Cent, of Mothers of Illegiti-mates to all Mothers.
Mothers of all colors and all nativities	181	25,688	٤.	393	27,641	п.	814	34,180	85	82	80,739	11.
All native Mothers	22	13,496	S ,	8	15,459	\$.	128	19,546	8	110	16,452	19:
All foreign Mothers	23	10,141	۲.	\$	11,015	8	83	13,832	.67	8	12,210	92.
Mothers of unknown nativities		2,061	161	8	1,167	2.74	83	30	1.16	æ	2,077	1.59
White	152	25,963	8.	178	97,188	8	277	83,494	88	217	30,238	ă.
Black	6	186	98.7	69	121	1.66	. 7	140	2.00	^	16	83
Palašto.	01	81	6.45	9	28	10.17	10	108	4.42	••	38	3.70
(Ma)	80	182	6.06	6 P	160	5.33	11	191	6.83	6	130	6.47
BOW B	9	#	12.99	69	305	1.83	7.	822	888		881	
kand Mulatto	F	918	6.09	80	180	77	52	243	76.7	2	8	1.43

LE XVI.—Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1874, According to the Returns.

TABLE XVII.—Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1874, the Per Cent. of such Children to inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.

COLOR OR RACE.	SEX.	Population, June 1, 1870, Represented by Births in 1874.	Total Illegilimate Births, 1874.	Per Cent. of Births to Popula- tion.	Per Cont. of each Sex to Total of both Sexes.	Number of Inhabit- ants to one Illegiti- mate Child of the same Color.
	[Total	1,180,353	236	.02		5,001
	Males	616,109	127	.02	54.04	4,851
All Colors	Fomales	564,344	108	.02	45,96	5,224
	Unknown		1	•••••		
	[Total	1,163,966	217	.02		5,364
	Males	607,601	116	.02	53.70	5,288
White	Females	556,865	100	.02	46.30	5,564
	Unknown		1			
	[Total	5,521	7	.13		7,887
Black	Males	8,047	5	.16	71.43	6,094
	Females	2,474	2	.98	28.57	1,237
	Total	6,215	8	.05		2,072
Mulatto	Males	8, 137	1	.03	83,88	8,137
	Females	3,078	2	.06	66.67	1,539
	Total	4,651	9	.19		5,168
Indian	Males	2,324	• 5	.23	55.56	4,648
	Females	2,827	> 4	.17	44.44	5,817
	[Total	11,786	10	.09		1,174
Black and Mulatto	Males	6, 184	6	.10	60.00	1,081
	Females	5,552	4	.07	40.00	1,386

a Includes 3 White and Indian. b Includes 1 White and Indian.

TABLE XVIII.—Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents in Michigan during the Year 1874.

		1		ILLI	CAMITI DE	E CHIL	DREN, 18	57 4		
NATIVITY OF	PARENTS.	No. of		Num	BER.		PE	B CENT.	OF TOTA	L
	•	Males to 100 Fe- males,	Total.	Malos.	Fe- males.	Un- kno'n	Total.	Males.	Fe- males.	Un- kno'n.
All Nativities		118	a 236	127	108	1	100.00	100.00	100,00	100,00
	Native	120	110	60	50		46.61	47.24	46.30	
Mothers	Foreign	188	93	53	40		89.41	41.73	87.04	
	Unknown	78	83	14	18	1	13.98	11.02	16.66	100,00
1	Native	244	81	22	9		13.14	17.82	8,33	
Fathers	Foreign	120	11	6	5		4.66	4.72	4.63	
	Unknown	105	194	99	94	1	82.20	77.95	87.04	100.00

⁻ There is one pair of illegitimate twins. The number of fathers and of mothers is 235.

TABLE XX .- Exhibiting, for the State and Counties, the Number of Females aged 16 to 45 in Michigan, June 1, 1870, the same represented by Returns of Births in 1874, the Number of such Females to one Child, to one Illegitimate Child, and to one Pair of Twins Reported as having been Born in Michigan during the Year 1874; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1874.

STATE AND COUNTIES.	Female Popula- tion Aged 16 to 45, June 1, 1870.**	Female Popula- tion Aged 16 to 45, June 1, 1870, Repre- sented by Births in 1874.	Per Ct. of Births in 1874 to Fe- males Aged 16 to 45, June 1, 1870, b	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1874, b	No. of Females Aged 16 to 45, June 1, 1870, to one Ille- gitimate Child Born in 1874. b	No. of* Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874. b	Twin Chil- dren,— No. of Males to 100 Fe- males.	No, of Illegit- imate Children Born in 1874.	No. of Still- births in 1874.
STATE	254,264	253,616	12,28	8.14	1,075	623	111	236	464
Alcona	o 157	157	21.02	4.76	157	157	100	1	1
Allegan	6,681	6,681	10,43	9,59	6,681	445	173	1	11
Alpena	548	524	20,61	4.85		d	á		1
Antrim	387	387	26.87	3.72		97	60		1
Baraga						d	d		
Barry	4,722	4,722	11.05	9,05	4,722	590	129	1	9
Bay	3,306	3,306	29.04	3.44	472	472	75	7	5
Benzie	452	452	16.81	5.95	452	452		1	9
Berrien	7,591	7,591	7.13	14.03	7,591	843	125	1	7
Branch	5,941	5,941	8,38	11,93	1,485	1,485	300	4	9
Calhoun	8,377	8,377	6.57	15,23	1,675	2,094	33	5	
Cass	4,415	4,415	7.29	13.71	1,472	1,471	50	3	1
Charlevoix	318	318	20.13	4.97		d	d		1
Cheboygan	402	402	26.12	3.83	402	a	d	1	10
Chippewa	330	283	25,80	3,88	94	d	d	3	1
Clare	37	37	108,11	.93		d	đ		3
Clinton	4,860	4,860	10.60	9.44	2,430	540	260	2	14
Delta	423	410	32.44	3,08	410	a	4	1	9
Eaton	5,524	5,524	9.78	10,23	5,524	460	140	1	6
Emmet	247	247	15.79	6.33	62	d	d	4	
Genesee	7,554	7,554	7.47	13.39	2,518	1,888	167	3	9
Gladwin						d	4		
Grand Traverse	881	769	12.61	7.93	769	384	300	1	
Gratiot	2,373	2,373	15,84	6.31	1,187	339	250	2	- 5

^{*} Law of Michigan limits age of marriage of females to not less than that of sixteen years.

b Only population of counties and townships represented by births in 1874 is used in computing statements in this column.

c Includes population of unorganized county of Oscoda.

d No twin births returned.

No females.

TABLE XX.—CONTINUED.

COUNTIES.	Female Popula- tion Aged 16 to 45, June 1, 1870.*	Female Popula- tion Aged 16 to 45, June 1, 1870, Repre- sented by Births in 1874.	Per Ct. of Births in 1874 to Fe- males Aged 16 to 45, June 1, 1870, b	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1874.b	No. of Females Aged 16 to 45, June 1, 1870, to one Ille- gitimate Child Born in 1874, b	No. of Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874, b	Twin Chil- dren,— No. of Males to 100 Fe- males,	No. of Illegit- imate Children Born in 1874.	No. of Still- births in 1874.
Hillsdale	7,016	7,016	6.33	15.80	7,016	1,403	100	1	1
Houghton	2,514	2,514	31.74	3.15	1,257	359	75	2	11
Huron	1,593	1,532	28.07	3.56	1,532	306	43	1	
Ingham	5,606	5,606	10.40	9,62	2,803	701	78	2	2
Ionia	6,087	6,087	9,77	10,23	2,029	1,522	33	3	7
Iosco	o 640	640	12.50	8,00		640	100		
Isabella	809	636	19.34	5.17	636	318	300	1	1
Jackson	8,025	8,025	8.88	11.26	8,025	2,006	167		9
Kalamazoo	7,304	7,304	8,65	11,56	1,826	562	117	4	11
Kalkaska	71	71	91.55	1.09	36	71	100	2	3
Kent	11,107	11,107	13.76	7.27	1,234	740	76	9	30
Keweenaw	727	727	29.44	3.40	727	727	100	1	
Lake	108	108	54.63	1.83	108	108	100	1	9
Lapeer	4,456	4,456	11.02	9.08	743	495	350	6	3
Leelanaw	885	885	12.66	7.90	885	d	4	1	2
Lenawee	10,458	10,458	6.91	14.46	3,486	951	38	3	
Livingston	4,094	4,094	9.92	10,08	4,094	512	129	1	7
Mackinac	334	334	14.37	6,96		d	d	******	
Macomb	5,664	5,664	10.73	9.32	1,416	629	200	4	11
Manistee	1,251	1,198	24.79	4.03	1,198	399	20	1	а
Manitou	135	135	22,22	4.50		4	4		
Marquette	2,695	2,695	33.06	3.02	270	385	250	10	15
Mason	653	540	25,93	3.86		4	4		1
Mecosta	1,223	1,223	21.91	4.56	1,223	136	80	1	
Menominee	319	319	3.45	29,00		4	4		
Midland	681	681	23,20	4.31		227	50		5
Missaukee	20	20	125,00	.80	20	d	d	1	
Monroe	5,594	5,594	13.78	7.26	2,797	559	100	2	6
Montcalm	2,890	2,890	14.29	7.00	1,445	482	233	2	10
fuskegon	3,176	3,176	14.83	6.74	3,176	1,059	100	1	5
fewaygo	1,463	1,411	11.76	8,50	470	1,411		3	2
akland	9,158	9,158	6.03	16.59	9,158	763	200	1	7

limits age of marriage of females to not less than that of sixteen years.

The limits and townships represented by births in 1874 is used in computing anised county of Ogemaw. 4 No twin births returned. • No males.

TABLE XX.—CONTINUED.

COUNTIES.	Female Popula- tion Aged 16 to 45, June 1, 1870.a	Female Popula- tion Aged 16 to 45, Juno 1, 1870, Repre- sented by Births in 1874.	Per Ct. of Births in 1874 to Fe- males Aged 16 to 45, June 1, 1870, b	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1874.4	No. of Females Aged 16 to 45, June 1, 1870, to one His- gitimate Child Born in 1874, b	No. of Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874, b	Twin Chil- dren,— No. of Males to 100 Fe- males.	No. of lilegit- imate Children Born in 1874.	No. of Still- births in 1874,
Oceana	1,516	1,516	16.42	6.09	758	758	300	2	4
Ontonagon	491	491	18.53	5,40	246	164	100	2	2
Osceola	408	408	51.47	1.94		408	•		5
Ottawa	5, 128	5,128	17.00	5.88	1,282	466	57	4	13
Presque Isle	56	56	39.29	2.55		d	4		1
Saginaw	8,208	8,208	16.51	6.06	8,208	822	122	1	26
Sanilac	2,690	2,690	19.33	5.17		299	200		3
Schoolcraft	129	129	87.98	2.63		129	•		5
Shia wassee	4,545	4,545	9.97	10,03	4,545	758	1,100	1	5
St. Clair	7,407	7,407	13.69	7.30	3,704	436	100	2	8
St. Joseph	5,797	5,797	7.59	13,18	725	1,932	200	8	5
Tuscola	2,734	2,734	15.62	6.40		547	233		3
Van Buren	6,306	6,306	8.19	12.22		701	80		4
Washtenaw	9,221	9,221	7.93	13.85	3,074	2,305	167	3	16
Wayne	27,202	27,202	16.01	6,25	254	349	90	107	74
Wexford	144	144	41.67	2,40		144	•		4

<sup>Law of Michigan limits age of marriage of females to not less than that of sixteen years.
Only population of counties and townships represented by births in 1874 is used in computing statements in this column.
No males.
No twin births returned.</sup>

Exhibit 10 shows the townships in which it is reported that no births occurred in 1874, representing 917 inhabitants in 1870. The similar exhibit for 1873 shows that there were only 429 inhabitants in 1870 in townships which were reported to have had no births in 1873.

EXHIBIT 10.—Counties and Townships in which it is Reported that there were no Births in 1874.

		Рор	ULATION,	1870.
COUNTIES.	Тоживнігв.	Total.	Males,	Females.
Total		917	542	375
Antrim	Forest Home			
Iosco	Ogemaw			
Keweensw	{ Grant	152	. 75	77
Lake	(Isle Royal			•••••
Menominee	Cedarville	198	148	48
	Ingaliston		· · · · · · · · · · · · · · · · · · ·	
Newaygo	Big Prairie	403	221	181
Ontonagon	Algonquin	54	30	24
Sanilac	Moore	113	68	45

[•] Organized since census was taken. • No population reported.

Table XXI. shows the townships and counties from which no returns of births were received for 1874, representing a population of 3,929 in 1870; the counties and townships not represented by returns of births in 1873 had a population in 1870 of 5,200.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1874 were Received, the Number of Females Aged 16 to 45, and by Sex and by Color, the Number of Inhabitants, June 1, 1870, in such Counties and Townships.

	Townships from	POPUL.	POPULATION, JUNE 1, 1870.	UNE 1,	1870.		WHITE.		B	BLACK.		Mor	MULATTO.		INDIAN.	AN.		NATIVE,		14	FOREIGN.	N.
COUNTIES.	WHICH NO RETURNS WERE RECEIVED.	Total.	Males.	Females.	Females aged 16 to 45,	Total,	Males.	Females.	Total.	Males.	Females,	Total.	Males.	Females.	Males.	Femules,	Total.	Males.	Remales.	Total.	Males	Females.
Totals		3,929	2,142	1,787	618	3,785	2,075	1,710			1	200	1 00	10	136	64 7	72 2,933	3 1,539	1,394	966	603	303
Alpena	Ossineke	144	9.1	53	75	144	91	22	1	1	1	1		1	1	1	- 67	7 38	19	87	23	22
Bay	Clay tonb a	-	-	-	-	-	-	*****	-	!	1	:	1	1	1	1	-	-	-	:	;	1
Chippewa	Warner	238	137	101	47	158	66	69	1	1	1	1	1	1	80	38	42 148	81		90	56	55
Delta	Masonville	152	105	47	13	159	105	47	-	1	:	:	1	:	:	:	. 63	33	23	90	99	24
Grand Traverse		510	27.1	239	112	510	271	2350	1	i	1	1		: :	1 1	1 1	386	3 205	191	114	99	48
Huron	White Rock	270	142	128	19	270	142	128	11	11	11	11	11	11	11	11		1 92	86	93		433
Iosco	Baldwined	******	******						-	-	-		-	:	:	:	-	******		-	-	1
Isabella	Sherman	134	320	337	25.5	134	330	337	11	ii	11	11	11	11	11	11	104	282	289	88	88	
Manistee	Morilla	139	74	25.02	38	129	75	25.00	11	11	11	11	11	11	11	11	100					200
Mason	Hamlina	191	80	48	38	117	72	99	-	i	:	:	1	:	t-	00	4					-
Midland	Summit.	257	137	130	23	257	137	120	iii					1 1 1			18					
	Brooks	974	510	464	55	710	481	433	1	:	:	00	03	10	450	53	26 819	415	404	155	95	9
Presque Isle	Rogers ec								111	11	11	11	11	111	11	11		11		11	11	11
Wexford	Harringbc	1	1		1				1	1	1	11	11	1 1	11	1	-	1		1	1	11

a No returns from county clerk. b Organized since census was taken, county clerk says no returns of births from Supervisor. d No population reported. Attached to Alpens when census was taken, and comprised the unorganized county of Presque Isle. County clerk says returns of Supervisor were received too late to be embodled in his returns to this department.

SEX OF CHILDREN.

The influence of season of year, of deaths, of parent-nativity, etc., upon the sex of the children born can be studied in connection with the tables and exhibits which follow. The births are stated by months, as they are returned, as they are when the months are made of equal length, and as they appear after certain corrections have been made which seem to be essential in order to show the proper proportions in the several months. Exhibit P contains the evidence in this corrected form. If one wishes to see it before the correction, this can be done by examining Exhibits N and O.

EXHIBIT N.—Births Returned as having occurred in Michigan during the Year 1874, by Sex and Months equalized to 30.44 days each.

	Year,				Мо	NTHS	o r Bii	кти, Е	QUAL	ZED,	1874.			
SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	-31,145	1,865	2,124	2,418	2,500	2,539	2,595	2,711	8,021	8,016	2,677	2,766	2,868	45
Males	16,279	975	1,124	1,275	1,320	1,312	1,350	1,455	1,558	1,567	1,400	1,408	1,512	28
Females	14,817	889	996	1,139	1,179	1,224	1,242	1,252	1,459	1,447	1,272	1,853	1,348	17
Unknown	49	1	4	4	1	8	8	4	4	2	5	5	8	5

[•] The number of births of each sex, and the total number, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. The total number as equalized is six less than the total number returned.

EXHIBIT O.—Births Returned as having occurred in Michigan during the Year 1874, by Sex and by Months, equalized to 30.44 days each, and by Months the excess of Males over Females. Unknown sex and unknown months excluded.

a n -	Year,			1	HTROM	s of 1	Birth,	EQU.	LIZED	, 1874.			
SEX.	1874.=	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	\$31,056	1,864	2,120	2,414	2,499	2,536	2,592	2,707	3,017	3,014	2,672	2,761	2,860
Malos	16,256	975	1,124	1,275	1,320	1,312	1,350	1,455	1,558	1,567	1,400	1,408	1,512
Females	14,800	889	996	1,139	1,179	1,224	1,242	1,252	1,459	1,447	1,272	1,353	1,348
excess of Males over Females.	1,456	86	128	136	141	88	108	203	99	120	128	55	164
Males to 100 Fe-	110	110	113	112	112	107	109	116	107	108	110	104	112

a The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown months and of unknown sex,—90. These and the six lost in equalizing, added to the number shown in this table, make the number as returned by registration officers.

EXHIBIT P.—Births Returned as having occurred in Michigan during the Year 1874, by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the returns, and as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each. Unknown sex and unknown months excluded.

	Year,				:	Mont	18 OF	Birth	8, 1874	•			
SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	57,142	4,389	4,805	5,254	5,219	5,067	4,956	4,947	5,243	4,980	4,189	4,090	4,005
Males	31,163	2,413	2,673	2,908	2,885	2,740	2,693	2,764	2,814	2,683	2,267	2,150	2,171
Females	25,979	1,974	2,132	2,346	2,334	2,327	2,263	2, 183	2,429	2,297	1,922	1,940	1,832

TABLE XXII.—Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1873-4, and the proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1874, According to the Returns.

	CONCEPT	ONS FOR	BIRTI	IS IN 1874.	
Birth	s of 1873 and 1874 of Conceptions of us in 1874, in order by Number, the Number first.	Total No. of Convep- tions.b	of I	ns of 1873 and 1874, in order by Number dales to 100 Females, the greatest Num- first,	No. of Males to 100 Fe- males.
	April	1,864	99	October	116.21
Less than the A erage Number of Conceptions.	May	2, 120	5 5	May	112.85
S T T	June	2,414	than the A propertion Males.	March, 1874	112,17
	July	2,499	Maria	July	111.96
7 5	Augnst	2,536	More than proper	June	111.94
Avera	ge	2,588	Mg o	January, 1874	110.06
	September	2,592	Avera	ge	109.84
ž ć	January, 1874	2,672	80	April	109.67
Vonc.	October	2,707	50	September	108.70
402	February, 1874	2,761	252	December	108,29
More than the Avera Number of Concep- tions.	March, 1874	2,860	propertion	August	107.19
Š	December	8,014	= #	November	106.79
	November	3,017] 3	February, 1874	104.07

a Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

b For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

c Exceptions to proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII.—Exhibiting, by Months, the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

CONCEPTIONS OF BIRTHS IN 1874.

in lö enum equal Mont	of 1873 and 1874 of Conceptions of Births 74, estimated from Births Corrected as if serated in Months of occurrence, and isod to months of uniform length. his arranged in order by number, the number first.	No. of Concep- tions as Correct- ed and Equal- ized, b	in 187 enunc equali Monti	of 1873 and 1874 of Conceptions of Births 4, estimated from Births Corrected as if erated in Months of occurrence, and sed to months of uniform length, as arranged in order by number of males females, greatest number first.	No. of Biales to 100 Fe- males. Births Correct- ed and Equal- ized, b
<u> </u>	March, 1874	3,988	AY.	October	126,61
Less than the Average Number of Conceptions.	February, 1874	4,062	More than the Average propertion of Males.	May	125.38
E S S	January, 1874	4,145	Prop.	June	123,96
	April	4,311	er er	July	123,55
3 8	May	4,627	M S	April	122,33
Avera	gob	4,653	Avera	gob	119.92
	September	4,836		September	119.02
Average Con-	October	4,845	2	March, 1874	118.52
₹8,	December	4,911	Aver in of	January, 1874	118.04
a se	August	4,929	and the	August	117.81
in in in in in in in in in in in in in i	July	5,059	than the Av proportion of	December	116,78
More than the / Number of (ceptions.	June	5,075	Less	November	115.79
4	November	5,153		February, 1874	110.79

See note b to Table XXII., page 74.
 Excluding unknown month and unknown sex.
 Exceptions to proposition that more than the average proportion of males were conceived in months in which less than the average number of conceptions occurred, and less than the average proportion of males in months in which more than the average number of conceptions occurred.

TABLE XXIV.—Exhibiting, by Months, according to the Returns, the Relation between the total Number of Conceptions, and the total Number of Deaths which occurred in the Months of the Years 1873 and 1874 in which were Conceived the Children born during the Year ending December 31, 1874.

	DEATHS.			Conceptions.	
Birth	s a of 1873 and 1874 of Conceptions of as in 1874, arranged in order by total ber of Deaths, the least first.	Number of Deaths as Equalized.	Birth	a of 1873 and 1874 of Conceptions of s in 1874, in order by number, the least ser first.	Number of Concep- tions as Equal- ised.
۸۲. ۵	January, 1874	643	. J.		1,860
Loss than the A erage Number of Deaths.	February, 1874	730	Less than the Av- erage Number of Conceptions.	May	2,124
	March, 1874	902	Seption 1	June	2,418
474	June	1,055	s the	July	2,500
3 8	November	1,038	Les	August	2,589
Avera	ge	1,100.8	Avera	ge	2,592
	May	1,101		September	2,596
Average of	December	1,115	Average Con-	January, 1874	2,677
₹ 8_	July	1,155	Con	October	2,711
결혼결.	April	1,191	er of	February, 1874	2,766
than the Number Deaths.	October	1,235	umber of C ceptions.	March, 1874.	2,866
More	September	1,492	More	December.	8,016
7	August	1,507	2	November	3,021

 $[\]bullet$ Equalized to months of 30.44 days each, excluding unknown month. \bullet 8ee note \bullet to Table XXIL, page 74.

TABLE XXV.—Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths; the Number of Deaths and Births returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and equalized to Months of uniform length.

DEATHS.			CONCEPTIONS.			
Death rected rence	Conths of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by number of Deaths, the least number first. Deaths corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.		Months of 1873 and 1874 of Conceptions of Birti in 1874, estimated from Births Corrected as enumerated in Months of occurrence, as equalized to Months of uniform lengt Months arranged in order by number, ti least number first.		tions as Correct	
Less than the Average Number of Deaths.	January, 1874	1,272	Less than the Average Number of Conceptions.	March, 1874	3,99	
	February, 1874	1,400		February, 1874	4,06	
	December	1,346		January, 1874	4,14	
	November	1,352		April	4,20	
	June	1,536		May	4,62	
	October	1,594	Average		4,65	
Average		1,612		September	4,83	
eg.	[July	1,633	More than the Average Number of Coffeep- tions.	October	4,84	
Average	May	1,648		December	4,91	
be A	March, 1874	1,674		August	4,93	
umb Deal	April	1,832		July	5,05	
More than the A Number of Deaths.	September	1,988		June	5,07	
	August	2,069		November	5,15	

See note b to Table XXII., page 74.

Bxcluding unknown month.

TABLE XXVI.—Exhibiting, by Months, the Relation between the Number of Deaths and the proportion of each Sex Conceived during the same Months of the Years 1873 and 1874, the Number of Births and Deaths Returned from which Conceptions are estimated being corrected as if enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			Conceptions.			
Months of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by number of Deaths, least Number first. Deaths corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length.		No. of Deaths as Cor- rected and Equal- ized.	Months of 1873 and 1874 of Conceptions of Bi in 1874, estimated from Births corrected enumerated in Months of occurrence, equalized to Months of uniform len Months arranged in order by Number Males to 100 Females, greatest number fin		males. Births Ourrect-		
<u>.</u>	January, 1874	1,272	ž g	October	196,61		
Average of	February, 1874	1,400	be don't	May	125.38		
2 1 2	December	1,846	More than the Average proportion of Males.	June	123.96		
Number Deaths.	November	1,852	5 6 3 E 2	July	198,55		
34	June	1,536	E E	April	122.53		
5	October	1,594	Average		119.92		
Avera	Lverage			[September	119.02		
.	(July	1,633	verage	March, 1874	118.53		
of of	May	1,648	Ave	January, 1874	118.04		
42	March, 1874	1,674	the rition	August	117.81		
Number Deaths.	April	1,832	than the A proportion Males.	December	116.73		
ž	September	1,988	890	November	115.79		
	August	2,069	1	February, 1874	110.79		

See note b to Table XXII., page 74.
 Excluding births in unknown month and of unknown sex.

TABLE XXVII.—Exhibiting, by Months, According to the Returns, the Relation between the Total Number of Deaths and the proportion of each Sex Conceived during the same Months of the Years 1873 and 1874, and Born during the Year ending December 31, 1874.

	DEATHS.			Conceptions.			
Months bof 1873 and 1874 of Conceptions of Births in 1874, arranged in order by Number of Deaths, the least Number first.		No. of Deaths as Equal- ized.	Months b of 1873 and 1874 in order by Numb of Males to 100 Females, the greatest Num ber first.		No. of Males to 100 Fe- males.s		
۶, <u>۵</u>	January, 1874	643	2	October	116.2		
Loss than the Average Number of Desiba.	February, 1874	730	More than the Avera proportion of Males.	May	112.80		
	March, 1874	902		March, 1874	112.17		
	June	1,055		July	11L96		
	November	1,083		June	111.94		
Averageb		1,100.8	ĝ	January, 1874	110.06		
More than the Average Number of Deaths.	May	1,101	Average		109.84		
	December	1,115	s than the Average proportion of Males.	April	109.67		
	July	1,155		September	108.70		
	April	1,191		December	108.2		
	October	1,235		August	107.19		
	September	1,492		November	106.79		
	August	1,507	13	February, 1874	104.07		

See Note b to Table XXII., page 74.
Equalized to months of 30.44 days each, excluding unknown month.
Excluding unknown month and unknown sex.

TABLE XXVIII.—Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Returned as having been Born in Michigan during the Year 1874, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the influence of Parent-Nativity upon Sex of Children.

	Birtii	8, 1874.	:	Вотв то	100 GIRLS	•
NATIVITY OF PARENTS.	Males.	Females.	Total Births.	Twin Children.	Illegiti- mate.	Still-born.
All Nativities	16,283	14,819	109,88	110.91	117.59	149, 14
Both Parents Native	6,982	6,844	110.05	126,57		161.90
Both Parents Foreign	5,469	5,084	108,64	103.87		144.64
Foreign Father and Native Mother	1,679	1,448	115.95	134,15		200,00
Foreign Mother and Native Father	867	811	106.91	76,00		211.11
One or Both Unknown	1,286	1,182	108,71	52,38		90,68
Native	8,756	7,891	110.96	128,26	120,00	167.09
Mothers Foreign	6,441	5,987	108,49	98,90	132,50	153,08
Unknown	1,086	991	109.59	57.89	77.77	93,33
Native	8,216	7,494	109.63	118.39	244.44	170.67
Fathers Foreign	7,643	6,932	110.26	105.83	120,60	154.79
Unknown	424	593	107,89	60,00	105,32	74.07
One or Both Native	9,990	9,041	110.50	121.40		173,63
One or Both Foreign	8,615	7,835	109.95	101.72		160.24
Both Unknown	224	202	110.89	100.00		76.00
Same Country	b 12,451	b 11,378	109.43	114.76		153,78
Different Countries	c 2,546	c 2,259	112.70	112,12		204.18
Same American State or Foreign Country Different Am. States or Foreign Coun-				111.11		177.02
tries				127.08		121.43

Table XXIX. and Exhibit Q may be studied together with reference to the influence of marriage of persons of different sexes at different ages on the sex of the offspring. The evidence is the best available, and is probably valuable for comparison with other localities. It cannot, however, be considered conclusive by itself, because we cannot follow the marriages in any way to learn the results of those which were fruitful, and it is difficult to estimate whether or not the influence on the births is greatest, on an average, in the year following the marriages, and especially as the women married in a single year are a small proportion of the married women who bear children in the succeeding year. It is believed, however, that the table and the exhibit are

Excluding unknown sex.
 Includes "Native" and "Foreign."
 Includes "Foreign Father and Native Mother" and "Foreign Mother and Native Father."

well worthy of study for other purposes. The reading of the exhibit may be facilitated by a little explanation. The average for the five years may be read as follows:—

Of the	men wh	o marrie	i between	the age	s of	? 20 and 25	1 40 44	- 66	cent.	married	women	aged "	under 20 20 to 25 25 to 30 30 to 35
44	44		"	**	"	25 and 30	84.14 45.18 17.47 8.01	66 66 66	66 66 66	66 66 66	66 66 66	61 64 64	under 20 20 to 25 25 to 30 30 to 35
"	••	"	"	"	"	80 and 85	19.56 37.39 24.66 12.91	"	66 66	66 66 66	66 66 66	66 66 66	under 20 20 to 25 25 to 30 30 to 35

EXHIBIT Q.—The Per Cent. of Persons at certain specified Periods of Age who were Married to those of the Opposite Sex at certain specified Periods of Age, in Michigan in 1870, 1871, 1872, 1873, and 1874, and the Average for 5 Years ending with 1874.

	75	PER CENT.	OF MALES MA CERTAIN		MALES, AT
YEARS.	Males.		FEMA	LES.	
	Agrs.	Under 20.	20 to 25.	25 to 30.	30 to 35.
	20 to 25	52.99	40.44	5.24	.69
Average for 5 years, 1870-1874	. 25 to 30	84.14	45, 18	17.47	8.01
	30 to 35	19.56	87.89	24.66	12.91
	20 to 25	52.27	41.24	4.93	.80
1870	. 25 to 80	82.25	45.89	17.46	2.93
	30 to 85	20.77	89.83	20,99	13.60
	(20 to 25	52,10	41.16	5.47	.66
187 1	. 25 to 80	88.27	46.65	17.78	2.45
	30 to 85	19.86	86.75	25.19	12,97
	(20 to 25	53,66	89.71	5.17	.79
1872	25 to 30	32.60	45,83	17.71	3,28
	30 to 35	19.32	38, 14	26.03	11.11
	20 to 25	52.56	40.93	5.27	.68
1873	25 to 80	32,30	44.53	18.09	8.78
	30 to 85	19.34	86,85	24.91	18.07
·	{ 20 to 25	54.36	89.18	5.34	.00
1874	. 25 to 80	85,26	43.52	16.32	2,65
	80 to 85	19.01	35.37	26.20	13.80

TABLE XXIX .- Influence of Parent-Nativity

			1	BOYS 1	ro 100	GIRLS.			
NATIVITY OF PARENTS.	AVE	1870-	or 5 Ys	LARS,		Тот	al Bir	THS.	
	Total Births	Twin Chil- dren.	Ille- giti- mates.	Still- Births	1870.	1871.	1872.	1873.	1874
All Nativities	108,82	103.61	103.81	155.50	108,80	110,29	107.46	107.67	109.88
Both Parents Native	107.63	103.41		157.77	109.46	106.09	106.24	106,29	110.05
Both Parents Foreign	110,20	107.41		190.16	109.31	116.15	107.36	109.52	108.64
Foreign Father and Native Mother	110.42	105.94		123.33	104.18	118.56	109.02	10441	115.95
Foreign Mother and Native Father	107.72	123.08		164.22	111.84	100,33	112.08	107.49	106.91
One or Both Unknown	110.93	95,08	•••••	208,91	105,91	198,30	112.40	119.83	108.71
Native	108.02	103.98	113.60	152.24	108.64	107.74	106.74	106.00	110.96
Mothers Foreign	109.77	107.34	98,00	181.63	109.65	113.79	107.43	109.48	108.49
(Unknown	114.04	71.43	101.62	215. 3 0		110.28	118.01	118.26	109.59
Native	107.78	102,11	160.28	158.71	109.69	105.83	107.06	106.70	109.63
Fathers Foreign	110.51	105.92	68.27	171.26	108.23	117.33	108,25	108.46	110.26
(Unknown	104.67	183.75	101.92	174.69		93.44	100.68	116.67	107.89
One or Both Native	108.09	102,90		153,82	108.90	107.29	107.88	106.87	110.50
One or Both Foreign	110.18	105.95		168, 17	108.62	115.32	108,22	108,56	109.95
Both Unknown	105.05	90.00		169.78		87.40	109.71	112.21	110.89
Same Country	108.71	104.28		171.48	109.41	110.86	106.72	107.65	109.43
Different Countries	109.85	107.22		138, 16	106.96	111.53	110.05	105.52	112,70
Same American State or Foreign Country		101.56		153.38					
Different Am. States or Foreign Countries.		109.11		236,96					

on Sex of Offspring for the Years 1870-1874.

BOYS TO 100 GIRLS.

	Twi	CHILD	REN.		I	LLEGITI	MATE C	HILDRE	M.		STILL-B	ови Спт	LDREN.	
1870.	1871.	1879.	1873.	1874.	1870.	1871.	1872.	1873.	1874.	1870.	1871.	1872.	1878.	1874.
107.14	112.85	91,60	95.56	110.91	108, 10	80.00	95.05	115.83	117.59	162.50	162,96	122.22	180.70	149.14
108.02	97.01	77.78	107.65	126.57						127.27	210,00	103,39	186.27	161.90
100,00	146.51	101.52	85.14	108.87						320.00	166,66	140.54	178.95	144.64
92.30	88.23	125.00	90.00	184.15	•••					200,00	33.53	50.00	133.33	200.00
911.11	45.45	200.00	82.86	76.00						150,00	100.00	180.00	200.00	211.11
108,00	125.00	50,00	140.00	52.88						•	150.00	225.00	850.00	90,65
105.85	96.02	84.62	105. 16	128.26	107.81	117.64	98.04	125.00	120.00	142.85	176.92	97.06	177.27	167.09
100,17	185.05	106,90	86.67	98.90	95.23	78,04	71.05	113.16	132.50	271.42	160.00	142.86	180.85	153.05
	126.66	41.18	60.00	57.89	133.83	32.00	158.33	106.67	77.77		125,00	242,86	400.00	93.88
118.45	¥3.10	82,89	102.78	118.89	135,29	116,66	190.00	115,00	241.11	180.77	191.66	110.61	189,88	170.67
98.41	136.89	102.47	85.99	105.83	45.45	40.00	66.67	69,28	120.00	¥75.00	126.66	181.91	167.92	154.79
	100,00	75.00	500,00	60,00	118.04	82.19	87.84	121.70	105.82		ь	200.00	250,00	74.07
110.66	92.59	88,68	101.20	121,40						143.75	106.66	104.00	181.08	178.60
105.92	128,07	106.86	87.19	101.72						250,00	125.00	134.62	170.97	160,24
	100.00	60,00	100.00	100.00				•			ь	233,83	200,00	76.00
104.00	115.00		07.57	114.74					_	107.50	010.75	100.61	170 /7	150 00
104.96 122.85	115.09 88.88	89.00 126.09	97,57	114.76 112.12		•				187.50 180.00	218.75	120.65 82.25	176.47	158.78
111.00		120,00	86,17	112.13						190,00	42.85		181.48	204.13
100.00	190,64	85.78	90.28	11L11		 -		•••••		185.71	160,00	120.00	174.19	177.01
106.66	106.15	94.87	110.81	127.08						450.00	800.00	109.68	203.70	121.41

[•] No males. • No females.

MARRIAGES.

There were 11,041 marriages reported to have been solemnized during the year ending December 31, 1874. This is the largest number ever included in the first returns to this Department for any one year; but it is probable that this number does not include all the marriages that were solemnized in Michigan in 1874. The returns for every year include some marriages that were solemnized in previous years. It was stated in the last Report that there would probably be some additions to the number there published, in subsequent returns; and the returns for 1874 confirmed the statement, by 1,168 marriages in the returns for 1874 which were returned as having been solemnized in 1873, thus increasing the number of marriages returned for 1873 from 10,574 to 11,742 (See Table XII., following). Judging from this, the number of marriages solemnized in Michigan in 1874 will be increased to over 12,000.

The number of marriages returned to this Department subsequent to the original returns, for each of the years 1870–1873, is as follows: for 1870, 613 marriages have been returned since the first compilation for that year; for 1871, 376; for 1872, 655; and for 1873, 1,168.

The average age of persons married in Michigan in 1874, according to the returns for that year, was as follows:

This is the first time such a showing has been made, and it is hoped that after a series of years something useful may be learned from it.

The average number of marriages for each of certain specified periods of time, during the year 1874, including those in unknown month, is as follows:

Average number per quarter	2,760.25
Average number per month	920.08
Average number per week	
Average number per day	

Table I. enables one to study the proportion of marriages solemnized in different seasons of the year, and shows that the largest proportion were solemnized during the last quarter of the year, the next largest during the first quarter, the third largest during the third quarter, and the smallest during the second quarter of the year—the quarter ending with June. The additional number of marriages for 1874 which will doubtless be returned with those for 1875, will probably greatly increase the number and proportion solemnized during the last quarter, and will increase the number for the quarter ending with September so that the proportion for this third quarter will be next to that for the last quarter of the year. In Table I., the number for each year is corrected up to March 16, 1876, for additional returns. Table I. shows that, for each of the years 1868–1874, the largest proportion of the

marriages were solemnized during the last quarter of the year,—October, November, and December.

TABLE I.—Marriages by Quarters of the Year, showing Number and Per Cent. in each Quarter of the Year for each of the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional returns, up to March 15, 1876.

TOTALS, AND MONTHS	18	6 8.	18	69.	18	70.	18	71.	18	72.	18	73.	18	74.
WITH WHICH QUARTERS END.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct, of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
Totals	8,697	100,00	10,392	100.00	9,773	100.00	10,577	100.00	10,677	100.00	11,742	100.00	11,041	100,00
March	1,540	17.71	2,322	22.34	2,503	25.61	2,532	23,94	2,397	22.45	2,651	22.58	2,832	25.65
June	1,829	21.03	2,292	22.06	2, 164	22.14	2,294	21.69	2,357	22.07	2,683	22.85	2,483	22,49
September.	2,172	24.97	2,470	23.77	2,184	22.35	2,513	23.76	2,605	24.40	2,983	25.40	2,713	24.5
December	3,148	36.20	8,290	31.66	2,964	29.71	3,223	80.47	3,311	81.01	3,420	29.12	8,003	27.20
Unknown	8	.09	18	.17	18	.18	15	.14	7	.07	5	.04	10	.00
Average •	2,174	25.00	2,598	25.00	2,448	25.00	2,644	25.00	2,669	25.00	2,936	25.00	2,760	25.00

[.] The number in unknown quarter of year included.

Exhibit A differs from Table I. in that the Exhibit shows the number and proportion of marriages solemnized in each of the years 1868-1874 as first returned, tabulated, and published, without the corrections for additional returns. A comparison of this Exhibit with Table I. will show the number added to the number originally returned for each year, because of additional returns.

EXHIBIT A.—Marriages by Quarters of the Year, showing Number and Per Cent. in each Quarter of the Year, for each of the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874 as Originally Returned and published in Reports.

TOTALS, AND MONTHS	18	68.	18	69.	18	70.	18	71.	18	72.	18	78.	18	74.
WITH WHICH QUARTERS END.	Num- ber.	Per Ct. of Tutal.	Num- ber.	Per Ct. of Total.	Num- bor.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct, of Total.
Totals	6,866	100.00	8,459	100.00	9, 160	100,00	10, 181	100.00	9,882	100.00	10,574	100.00	11,041	100.00
March	1,377	20.05	2,167	25.61	2,429	26,51	2,475	24.30	2,326	23.54	2,580	24.39	2,832	25.65
June	1,667	24.13	2,097	24.79	2,081	22.71	2,250	22.09	2,281	23.08	2,578	24.38	2,483	22.49
September.	1,886	27.46	2,154	25, 46	2,073	22,63	2,423	23.79	2,471	25.01	2,774	26, 23	2,713	24.57
December.	1,924	28, 16	2,024	23.92	2,560	27.94	3,018	29.64	2,797	28.30	2,637	24.94	3,003	27.20
Unknown	12	.17	17	.20	17	.18	15	.14	7	.07	5	.05	10	.09
Average	1,716	25.00	2,114	25.00	2,290	25.00	2,545	25.00	2,471	25.00	2,644	25.00	2,760	25.00

[·] Includes those in unknown quarter of year.

ber; but in the previous years, the largest number and per cent. are shown for December. It is possible that the Table II. shows the number of marriages, by months arranged in order by number, greatest first, for each of the years In 1873 and 1874 the largest number and per cent. of total appear for October, the next largest for Novemadditional returns will increase the number for December so as to make it head the list. 1868-1874.

TABLE II.—Marriages by Months arranged in Order by Number, Months having the greatest Number first, for the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional Returns, up to March 15, 1876.

	Per Ct. of Total.	100.00	9.17	9.13	888	8.67	8.64	8.80	8.8	8.49	8.37	7.83	7.27	6.85	8.	8
1874.	Num- ber.	11,041	1,013	1,008	383	957	756	676	888	937	854	810	8	35	2	920.08
	Months.	Total	9.99 Oct	9.75 Nov	9.46 Dec	9.39 Jan	8.79 July	8.45 Sept	7.67 Feb	7.66 Mar	7.51 Apr	7.33 Aug	7.15 May	6.80 June	.04 Unk	8.83 Av 920.08
	Per Ct. of Total	100,00	9.80	9.79	9.46	9.30	8.79	8.45	7.67	7.66	7.61	7.88	7.15	88	\$	8.83
1873.	Num. ber.	11,742	1,173	1,145	1,111	1,102	1,032	386	106	00	88	88	95	28	10	978.50
1	Months.	Total	Ost	10.00 Nov	9.94 July	Dec.	8.32 Sept	8.10 Jan	8.00 Apr	7.80 May	7.33 June	7.08 Mar	6.68 Aug	6.66 Feb	.07 Unk	8.23 AV
	Per Ct. of Total.	100.00 Total	11.06 Oct.	10.00	9.94	8.96	8.32	8, 10	8.00	7.80	7.83	7.08	6.68	6.6	6.	8 8
1872	Num. ber.	10,677	1,181	1,068	1,062	2967	**	286	\$	88	82	756	713	710	1	889.75
**	Months.	Total	11.13 Dec	9.70 Oct.	9.64 Nov	8.77 July	8.65 Apr	8.38 Sept	Mar	7.71 Jan	7.45 Aug	7 19 May	6.92 June	6.13 Feb	.14 Unk	
	Per Ct. of Total	100.00	11.13	9.70	9.6	8.77	88	85.38	8.19 Mar	1.7	7.45	7 19	6.92	6.13	7.	8 33 Av.
1871.	Num. ber.	10,577	1,177	1,028	1,020	828	918	22	88	816	288	290	733	848	19	881.43
	Months.	Total	Dec	8.90 Oct.	9.42 Nov.	8.69 Jan.	8.63 July	8.39 Apr	8.32 Sept	Mar	7.80 Feb	7.72 May	6.31 Aug	6.29 June	.18 Unk	8.33 AV 881.42
	Per Ct. of Total.	100.00	10.39	8.80	9.43	8	8	8	8.32	8.8	7.80	7.72	6.31	6.29	.18	30 30
1870.	Nu B.	9,773	1,015	86	126	849	**	930	813	787	763	705	617	615	18	814.42
-	Months.	Total	Dec	10.25 Nov	Oct	8.66 Jan.	8.36 Mar	8.11 Feb	8.00 July	7.43 May	7.31 Apr	7.00 Sept	6.67 Aug	6.63 June	.17 Unk	8.33 Av 814.42
	Per Ct. of Total.	100.00	11.40	10.25	10.00 Oct.	80.8	8.38	8,11	8.00	7.43	7.31	2.00	6.67	6.63	.17	8
1869.	Num.	10,392	1,186	1,065	1,040	8	88	843	88	772	760	727	893	88	86	966.00
7	Montha	Total	Dec	Nov.	0ct	Sept	Jan	July	May	Apr	Mar	Aug	Feb	June	Unk	Αν
	Per Ct. of Total.	100.00	13.14	11.87	11.19	9.71	36.36	7.87	1.71	7.08	6.90	8.	25.38	4.46	8	8.83
1968.	Num. ber.	8,697	1,143	1,032	973	845	787	288	67.1	919	9	35	467	88	œ	724.75
=	Months.	Total	Dec	2 Nov	3 Oct	Sept	5 July	6 Jan	7 May	8 Apr	9 Aug	10 June	11 Feb	12 Mar	Unk	AV 724.75

· Includes those for unknown month.

EXHIBIT B.—Marriages in Michigan during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional Returns, up to March 15, 1876, and Equalized to Uniform Months of 30.44 days each.

		-						M	MONTHS.	ی ا					
<u> </u>		TOTAL	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept	Oct.	Nov.	Dec.	Unk.
Marriages as roturned. Days and hundredths by which the months should be in-		8,697		\$	28	919	6	25	727	8 :	35	973	1,082	1,143	60
creased or diminished to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length	: 988 	-27	8 27	# 83 + + + + + + + + + + + + + + + + + + +	8 t7	* * +	8 2	\$ \$	913	8 -	‡ £	8, 2,	‡ ÷	8 8	
Marriages, equalized to months of uniform length		8,670	£63	<u> </u>	<u>\$</u>	8	3	3	12	8	88	28	1,047	1,1%	•••
Marilages as returned. Days and hundredths by which the months should be in-		10, 392	8	8	8	13	28	8	20	122	8	1,040	1,066	1,185	82
equalize them to uniform length inges should be increased or dinlin. months of uniform length		•7	-192	+ 2.44	-1.56	1	- 15 - 15	+ · · 4	- 15 - 15		+.4 51 +	-18	+.4	85. <u>s</u> 4	
Marriages, equalized to months of uniform length		10, 380	3	इ	97.	8	88	8	88	12	816	1,021	1,081	1,164	18
Marriages as returned	<u> </u>	9,778	2	8	\$	762	787	615	818	617	ğ	921	. 8	1,015	2
equalize them to uniform length iages should be increased or diminations of uniform length	1870	=	8 5	+2.44	-15	+.4	85. 1 4.	+.44 +.9	-156	-11	#. 4 11+	56	1 1 1 1 1 1 1 1 1 1	- 18	
Marriages, equalized to months of uniform length		9,784	1 2	8	819	E	E	250	1 88	8	765	8	88	88	2
Marriages as returned. Days and hundredths by which the months should be in-		10,577		88	818	88	8 3	848	915	£ 3	8	1,026	1,030	1,177	12
creased of unministed to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length	1871	7	8 7	\$ 8	ķ. 12	÷ + 55	8 4	9 +	-17	8 2	‡ †	8 8	+ 15	ş ə	
Marriages, equalized to months of uniform length		10,581	 	88	8	88	746	8	88	719	878	1,007	1,035	1,186	=

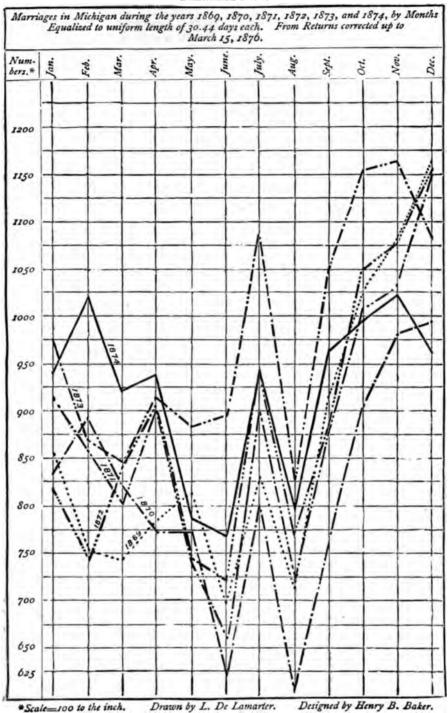
EXHIBIT B.—Continued.—Marriages by Months.

				İ			Ř	MONTHS.						
X KAR.	R. TOTAL	Jan.	Føb.	Kar	April.	May.	June. July.		Aug.	Sept.	i ë	Nov.	Dec.	Unk.
Marriages as returned	778, 9 £	88	710	30	88	756	713	796	怒	88	1,068	1,062	1,181	-
created unintering by which the months should be incorporated to equalize them to uniform length		8.	+1.44	85.	7.+	8.	#.+	8.	8	¥:	8	7.	8	
ished to equalize them to months of uniform length 1872.	88	-12	\$	-15	+ 13	-14	01+	-11	7	+ 13	-19	+ 16	-21	į
Marriages, equalized to monthe of uniform length	10,649	818	745	838	901	742	723	95	286	878	1,049	1,078	1,166	-
	11,742	88	788	88	901	98	25	1,111	840	1,032	1,178	1,165	1,102	8
creased or diminished to equalize them to uniform length.			56 +2.44	8	7.	92.	4.4	-28	8	7.	99.	4.	8	99-
ished to equalize them to months of uniform length 1873	+	22	02 +	91-	+ 13	-16	+ 13	8	-15	+ 15	ह्	+17	Ŗ	İ
Marriages, equalised to months of uniform length	11,744	974	88	845	914	88	88	1,001	835	1,047	1,152	1,162	1,086	٩
Marriages as returned	11,041	1 957	938	937	77.6	808	738	758	810	676	1,013	1,008	883	2
creased or diminished to equalize them to uniform length.		8 ,	+2.44	8	#.+	85	7.	82.	8.	7.	8	7.	8	
Jahed to equalize them to months of uniform length 1874	+ 19	-17	86 +	-17	+ 14	-15	=	-17	-15	7.	-18	+ 15	27	:
Marriages, equalized to months of uniform length	11,060	8	1,98	850	886	38	787	937	8	8	88	1,023	*	2

but when the months are equalized to uniform length, as in the last line of this Exhibit, the largest number appears for November, the next largest for February,—the first time that February has ranked so high. In this Exhibit, all the years Exhibit B is similar in plan to the one published in the last Report, and shows the number of marriages for each of the are corrected up to March 15, 1876, for additional returns (see remarks preceding Table I.), which correction has increased the number in some of the months over that shown in the corresponding Exhibit in preceding Report. years 1868-1874, by months, as returned and as equalized to months of equal length. Before the months of 1874 are equalzed, the largest number of marriages appears for October, and the next largest for November, as is also shown in Table II.;

and April is higher for 1874 than for any other year, but from April the line representing 1874 suddenly drops, as do also the lines for most of the years, and from there the line for 1873 is the highest as far as November, and drops in December. The line for 1874 is next to the lowest of any year in November, and the Jowest of all the years in December. It is probable Diagram No. 2 is a graphic representation of the marriages for each of the years 1869-1874, by months equalized to uniform that the returns for 1875 will increase the numbers for the last mouths of 1874 so as to greatly elevate the line representing the marriages solemnized during October, November, and December of the year 1874. length, as shown in the fourth line for each year. An examination of the Diagram shows that the line for February, March,

DIAGRAM No. 2.



MICH. ENG. CO.

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TABLE III.—Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized in Michigan during the Year ending December 31, 1874.

STATE	YEAR,						Mo	NTHS,	1874.					•
COUNTIES.	1874.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE	11,041	957	938	937	924	808	756	954	810	949	1,013	1,008	982	10
Alcona	10				3			1	2		8	1		
Allegan	277	22	21	23	17	20	17	86	19	20	24	30	28	
Alpena	59	2	1	1	8	9	7	6	4	4	8	6	2	
Antrim	30	2	8	1	4	4	8	2	1	1	2		7	
Barry	176	11	26	19	10	10	18	10	9	11	19	17	16	
Bay	203	11	11	14	23	13	16	16	22	19	22	20	16	
Benzie	17		1	3		5	1	2	1	1		1	2	
Berrien	304	44	19	87	24	24	29	80	21	22	20	20	12	9
Branch	309	33	21	22	19	21	12	25	23	25	31	28	49	
Calhoun	341	33	30	35	18	15	21	25	26	25	E7	41	35	
Cass	202	34	21	18	18	16	10	17	11	17	21	21	18	
Charlevoix.	23	8	2	4	1	1	2		2	3	3	1	1	
Cheboygan.	20	1		8	5	1	2	8		4		1		
Chippewa	6									2	2	1	1	
Clare	6		1			1	 	1			1	1	1	
Clinton	160	11	14	16	13	16	12	19	10	17	11	11	10	
Dolts	38	4	2	2	4	1	8	2	6	3	8	8	5	
Eaton	228	14	24	27	16	19	21	19	18	29	19	10	12	
Emmet	23	2	7		1	2	8	2	1	1	1	8		
Genesee	814	26	21	29	23	16	14	27	18	81	39	35	35	
Gr.Traverse	84	2	1	2	1	5	8	6	4	1	8		1	
Gratiot	90	12	14	7	8	8	10	6	10	6	2	7	5	
Hillsdale	404	85	87	30	83	20	23	37	88	34	85	29	57	1
Houghton	136	14	12	14	10	8	8	10	7	18	18	8	9	
Huron	78	5	5	5	2	8	6	5	7	6	9	7	13	
Ingham	281	21	27	21	25	18	13	30	14	21	21	84	39	,
Ionia	248	23	17	34	29	11	24	25	14	26	24	8	13	
Iosco	21	2	5		1	5	1	1	1	2	2	 	1	
Isabella	1	8	8	4	8	9	5	2	6	4	4	2		
Jackson	ı	43	87	80	29	22	23	27	20	27	82	89	34	
Kalamazoo	1	24	21	27	17	18	20	27	22	23	87	87	29	
Kalkaska	ŀ			1	4			1		1	2			
Kent	520	49	51	27	54	44	39	62	28	53	47	41	25	
Keweenaw.		1	8	5	8		1	1	4	7	2	2	1	
	1	1 1	1	1	1	1	┖.	<u>. </u>	<u> </u>	<u> </u>	<u> </u>		1	1

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE III.—CONTINUED.—Marriages by Counties, by Months.

	Ī	I			<u>-</u> -		Mo	NTHS,	1874.					
COUNTIES.	YEAR,	 												
	1874.	Jan.	Feb.	Mar.	April.	May.	June,	July.	Aug.	Sept,	Oct.	Nov.	Dec.	Unk.
Lake	14	1	1	1	2	1			2	3	1	1	1	
Lapeer	194	17	7	21	21	7	19	18	9	11	16	25	23	1
Leelanaw	42	8	8	3	2	2	4	5	7	5	8	2	3	
Lenawee	441	87	37	31	36	80	24	81	88	30	40	58	51	8
Livingston.	151	a 1	144	20	8	12	6	9	8	10	18	18	17	
Mackinac	26	1	8		8	8	8	8	. -	3	2			
Macomb	180	91	24	9	19	14	7	10	11	21	16	23	5	
Manistee	67	8	 -	8	4	1	11	4	9	6	7	7	7	
Manitou	8	ı	8						ļ	ļ		4		
Marquette	206	25	17	10	14	18	19	10	26	12	19	17	19	
Mason	37	2	8	5	5	3	1	5	6	2	2	1	2	
Mecosta	87	7	6	9	7	5	7	6	6	6	10	8	10	
Menominee.	19	1	1	1	1	4	2		1	2	2	1	3	
Midland	23				2	 -	2	4	7	2	2	1	8	
Missaukee	2				2				 .					
Monroe	246	34	24	11	28	30	12	27	17	25	15	17	6	
Montcalm	165	17	18	20	18	8	11	15	11	10	14	12	11	
Muskegon	158	6	10	11	12	7	11	21	15	19	14	17	15	
Newaygo	86	7	8.	6	6	6	9	9	7	9	9		10	
Oakland	273	28	16	24	16	16	13	17	16	34	30	84	29	
Oceana	77	5	6	10	8	9		9	5	4	7	8	7	
Ontonagon	14		2	1	2	1	1	2	3	2				
Osceela	47	5	8	8	5	4	1	8	8	5	3	5	2	
Ottawa	224	18	17	21	25	18	15	19	15	17	24	21	14	
Presque Isle	10		1			1	İ	1	 		İ	2	2	
Saginaw	379	20	85	31	35	35	82	24	22	36	27	44	38	
Sanilac	107	6	11	11	8	12	9	9	8	7	6	11	14	
Schoolcraft	6	2	 -			 		1	2			1]]
Shiawassee.	152	8	14	28	6	10	10	13	20	11	17	13	7	
St. Clair	869	22	26	81	34	83	25	36	23	32	85	33	39	
St. Joseph	278	22	21	18	15	23	16	17	26	26	26	24	45	
Tuscola	121	12	17	12	14	6	6	15	5	8	6	11	7	
Van Buren.	257	18	19	29	14	29	13	22	22	27	21	18	24	1
Washtenaw	214	18	20	20	26	15	11	22	23	18	17	17	7	
Wayne	1,023	107	82	74	101	74	77	82	72	81	100	92	81	
Wexford	22	5	1	2	1	2	1	2	1	1		2	4	
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ı	

Table IV. shows the marriage-rate to be slightly greatest among the African race ("Black and Mulatto"), and least among the Indians, though there are not in this respect great differences in the races. In studying this table, reference may be made to Exhibit 9, and Table XVII., of Births, and remarks thereon, where it is shown that the illegitimate birth-rate is larger among the Indians than among any other race included in the tabulation. For the year 1873, the marriage-rate was also smaller among the Indians than among any other race included in the table; but in the corresponding table for each of the years 1870, 1871, and 1872, the marriage-rate appears slightly greater among the Indians than among the other races. In computing the marriage-rate, the compiler is obliged to use the population in 1870, and the marriages in the respective years; and as the population may fluctuate, the rates as shown in the tables are not perfect.

The table shows the marriage-rate to be greater among females than males; it is greatest among all female inhabitants, and among the females of each color.

In 1874, 34 persons are reported to have married those of another color.

TABLE IV.—Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Marriages, and the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1874, and the Per Cent. of Persons Married in 1874 to Population, June 1, 1870.

		Population, June 1, 1870, Represented	Number		Married,	Per Cent. of Persons Married in 1874 to	Number of Persons who
COLORS.	SEX.	by Marriages in 1874.	Marriages, 1874.	Number.	Per Cent. of Total Number.	Popula- tion, June 1, 1870, by Sex and by Color.	Married those of another Color.
	(Total	1,184,282	11,041	22,082	100.00	1.865	84
All Colors	Males	618,251		11,041	50.00	1.786	17
	Females	566,031		11,041	50.00	1.951	17
	(Total	1,167,751	10,780	21,582	97.74	1.848	12
White	Males	609,676		10,801	48.91	1.772	6
	Females	558,075		10,781	48.82	1.932	6
	Total	5,521	99	192	.87	8,478	10
Black	Males	3,047		99	.45	8.249	8
	Females	2,474		93	.42	3.759	9
	Total	6,223	18	40	.18	.643	6
Mulatto	Males	3,140	 	18	.08	.573	1
	Females	8,088		22	.10	.714	5
	Total	4,787	40	81	.87	1.693	6
Indian	Males	2,388		40	.18	1.675	2
	Females	2,899		41	.19	1.709	4
	[Total		104	187	.85		
One or Both Unknown	Males			83	.38		
	Females			104	.47		
	(Total	11,744	317	232	1.05	1.975	16
Black and Mulatto	Males	6, 187		117	.53	1.843	9
	Females	5,557		115	.52	2.069	7

TABLE V.—CONTINUED.—Marriages by Color.

		COLOR O	F PERS	ONS MAI	RRIED, 1 LES.	874, STA	TED BY
COUNTIES.	Marriages, 1874.	White.	Black.	Mulatto	Indian.	FRMALE UNE.	Un-
		W III.	<i></i>		Indias.	Male White,	known.
Ontonagon	14	14	ļ				
Osceola	47	47		ļ			
Ottawa	294	224	 	 	 		
Presque Isle	10	10]]. .			
Saginaw	879	877	. 2				
Sanilac	107	107			 		
Schoolcraft	6	6					
Shiawassce	152	152			 		
St. Clair	369	851	1			11	٥ د
St. Joseph	279	278			 		ļ
Tuscola	121	• 121					
Van Buren	257	255	 	1	1		
Washtenaw	214	206	4.5				3
Wayne	1,023	c 962	• 44		11		16
Wexford	22	22					

^{*1} couple, "African." bl couple, male "Light complexion," female "Dark complexion." c1 couple, male white, female mulatto. 42 couples, "African." c42 couples, "African;" 2 couples, male "African," female white. fl couple male Indian, female white.

Exhibit 1 is similar in plan to the one published for 1873 for the first time, and can only be compared with the corresponding one for 1873. It is designed to show the manner of union by nativities of persons married in Michigan in 1874. The first column at the left on the first line shows that 6,613 native-born females married native-born males; the second column on the first line shows that 816 foreign-born females married native-born males; the third column on the first line shows that 83 females whose nativity was not stated married native-born males; the fourth column shows that 7,512 females of all nativities married native-born males; and the fifth or last column shows that 68.04 per cent. of all the females returned as having been married in 1874 married native-born males. Thus, the second line, containing, from left to right, the foreign-born bridegrooms, is to be similarly read.

The last column of this Exhibit shows that 68.04 per cent. of the females who were married in 1874, married native-born males, against 65.24 in 1873; 30.71 per cent. of all females married in 1874 married foreign-born males, against 33.49 in 1873; and 1.25 per cent. of all females married males of unknown nativity in 1874, against 1.27 per cent. in 1873. The last line of this Exhibit shows that 72.31 per cent. of all the males who were returned as having been married in 1874 married native-born females, against 70.69 per cent. in 1873; 25.73 per cent, of all the males married in 1874 married

foreign-born females, against 27.44 per cent. in 1873; and 1.96 per cent. of all males married females of unknown nativity in 1874 against 1.87 per cent. in 1873.

Another way of stating the teaching of this Exhibit is as follows: The last column shows that 68.04 per cent. of all bridegrooms in 1874 were nativeborn, 30.71 per cent. were foreign-born, and 1.25 per cent. were of unknown nativity; the last line shows that 72.31 per cent. of all brides in 1874 were native-born, 25.73 per cent. were foreign-born, and 1.96 per cent. were of unknown nativity.

EXHIBIT 1.—By Nativity, the Number and Per Cent. of Brides and Bridegrooms Returned as having been Married in Michigan during the Year ending December 31, 1874, and, by Number, Manner of their Union, by Nativities.

		В	RID ES, 1 87	74.	Barre 18	ROOMS,
		Native.	Foreign.	Un- known,	Totals of each Nativity, and of all Nativities.	Per Cent. of each Nativity.
	(Native	6,613	816	83	7,512	68,04
Bridegrooms	Foreign	1,344	2,019	28	3,391	80.71
	Unknown	27	6	105	138	1.25
P11	(Whole Number of Each Nativity, and Total	7,984	2,841	216	11,041	
Brides	Per Cent. of Each Nativity, and Total	72.81	25.73	1.96		100.00

Table VI. contains data concerning the marriage-rate among the native and foreign-born inhabitants, and shows the rate among the foreign-born to be very much greater than among the native-born; but it should be borne in mind, (1), that this showing is based upon the number of persons returned as having been married in 1874 and the number of inhabitants in 1870; and (2), that the statement of the number of native-born inhabitants includes the children and youth,—persons not of marriageable ages,—while the foreign-born persons are principally of older ages. The first of these two facts may vitiate the statement of the marriage-rate, the second certainly does, by greatly decreasing the statement of the marriage-rate among the native-born.

In order to learn the actual marriage-rate, the number of marriages must be divided by the number of inhabitants at marriageable ages, at the time of the occurrence of the marriages; but as we were obliged to use the statement of the population in 1870 with the marriages in 1874, the nearest we can approach the actual marriage-rate for 1874 is that based upon the marriages in 1874 and the inhabitants in 1870 at marriageable ages—15 years and over—as is done in the new Exhibit 2. By this Exhibit it appears that the marriage-rate among the native-born inhabitants was slightly greater than among the foreign-born, in 1874, and that it is greatest among the native-born females, and least among the foreign-born males.

Exhibit 2 is a new one, published this year for the first time, and shows, by

nativity, by sex, the number of inhabitants of Michigan in 1870, aged 15 years and over, the number of persons married in 1874, and the per cent. of persons married in 1874 to inhabitants in 1870, aged 15 years and over. It is a very instructive Exhibit, as showing the marriage-rate among persons of different nativities, and differs from Exhibit C in that Exhibit 2 includes the number of inhabitants aged 45 years and over, and of unknown ages, whereas Exhibit C excludes both.

Exhibit C shows. by nativity, by sex, the number of inhabitants of Michigan, in 1870, aged 15 to 45 years, the number of persons married in 1874, and the per cent. of persons married to inhabitants. It may be seen that the marriage-rate among all nativities appears .97 per cent. greater in this Exhibit than in Exhibit 2, among the native-born, .94 per cent. greater, and among the foreign-born, .97 per cent. greater; that is, including in the statement of the marriage-rate the inhabitants aged over 45 years increases the statement for the foreign-born more than for the native-born. Exhibit 2 is much more satisfactory than Exhibit C or Table VI., as showing the marriage-rate in 1874, because in Exhibit 2 are included the inhabitants at all marriageable ages, approximately.

TABLE VI.—Exhibiting, by Sex, the Nativity of Persons Returned as having been Married in Michigan during the Year 1874; Number of Inhabitants, June 1, 1870, Represented by Returns of Marriages in 1874; and Per Cent. of Persons Married to Inhabitants of same Nativity.

		ITAG ES,		on, June Presente Riages II	D		Perso	NS MAI	RRIED,	1974.	_
NATIVITY.	Num-	Per Cent.	Total.	Males.	Fe-	1	UMBER.		MARI Popu	T. OF E	1874 TO
		Total.				Total.	Males.	Fe- males,	Total.	Males.	Fe- males.
Total	11,041	100,00	1,184,282	618,251	566,031	22,083	11,041	11,041	1.87	1.79	1.95
Native	6,613	59.89	918,612	470,644	447,968	15,496	7,512	7,984	1.68	1.59	1.78
Foreign Male and Native Female	· ·	18.29 12.17	265,670	147,607	118,063	6,232	3,391	2,841	2.34	2,29	2.41
Native Male One or Both Unknown	816 249	7.39 2.26				354	138	216			
One or Both Native.	'	79.46				15,496	7,512	7,984			
One or Both Foreign.	4,179	37.85				6,232	3,391	2,841	•••••		

EXHIBIT 2.—Relation of Marriages in 1874 of Persons of all Nativities, and of those where both Parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 Years and over.

NATIVITY.	INHABITA AGED 15	ANTS, JUN Years as	z 1, 1870,	Persons	MARRIE	D, 1874.	ITANTS,	1874 TO	INHAB-
	Both Sexes.	Males.	Fe- males.	Both Sexes.	Males.	Fe- males.	Both Sexes.	Males.	Fe- males.
All Nativitiesb	733,268	388,759	344,509	22,082	11,041	11,041	3.01	2.84	3.20
Native	505,079	260,377	244,702	15,496	7,512	7,984	3.07	2.89	3.22
Foreign	228,189	128,392	99,807	6,232	3,391	2,841	2.73	2.64	2.85

a From Tables XXIII., XXIV., and XXV., Vital Statistics Volume, Ninth U. S. Census, 1870. Unknown ages included.

In the number married, this line includes marriages of "foreign males and native females," foreign females and native males," and of persons whose nativity was unknown.

EXHIBIT C.—Relation of Marriages in 1874 of Persons of all Nativities, and of those where both Parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 to 45 Years.

NATIVITY.	Inhabit. Aged	ANTS, JUN 15 TO 45	E 1, 1870, Fraes.	PERSON	s Marrie	id, 1874.	BIED IN	OF PERSO 1874 TO UNE 1, 18 YEARS.	INHABIT-
	Both Sexes.	Males.	Fe- males.	Both Sexes.	Males.	Fo- malos.	Both Sexes.	Males.	Fe- males.
All Nativities	555,352	289,085	266,267	22,082	11,041	11,041	8.98	3.82	4.15
Native	387,306 168,046	195,765 93,320	191,541 74,726	15,496 6,232	7,512 8,391	7,984 2,841	4.01 3.70	3.84 8.63	4.17 8.80

[•] In the number married, this line includes marriages of "foreign males and native females," "foreign females and native males," and of persons whose nativity was unknown.

The largest number and proportion of males and of females married in 1874 were aged 21 to 25 years, as shown by Table VII.

The highest marriage-rate for males in 1874 was for those at the ages of 21 to 25 years; and for females the highest rate was for those aged 19 years, for 1873 and 1874. The second highest marriage-rate for males was at the ages of 25 to 30 years, and for females at the age of 18 years. More than one-third of the males, and over one-fourth of the females married in 1874 were aged 21 to 25 years.

TABLE VII.—By Sex and Periods of Age, the Population, June 1, 1870, represented by Marriages in 1874, and by Sex the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age; the Per Cent. of each Sex at each Age and Period of Age, and the Per Cent. of Persons Married to Population of same Age and Period of Age.

			MAR	RIAGES,	1874.			BACH AGI BIOD OF A 1, 1870,	ge, June Repre-	PER CE MARE TO PO TION O	IAGES PULA- P COR-
AGES IN YEARS	Total		Males.			FEMALES.		SENTED I		RESPO:	
AND PERIODS.	Number of Persons Married, 1874.	Number Married.	Per Ct. of Total Mar- riages.	Per Ct. of each Sex to Total of Both Sexes.	Number Married.	Per Ct. of Total Mar- riages.	Per Ct., of each Sex to Total of Both Sexes.	Males.	Fo- males.	Males.	Fo- males.
All Ages	22,082	11,041	100.00	50.00	11,041	100,00	50.00	877,189	870,266	2,93	2.98
13	2 36				2 36	.02			13,252 12,936		.02
15	113				113	1.02			11,715		.96
16	636	1	.01	.16	635	5.75	99.84	12,585	12,494	.01	5.08
17	945	8	.03	.32	942	8.53	99,68	11,759	11,324	.03	8.39
18	1,330	54	.49	4.06	1,276	11.56	95.94	12,489	12,707	.43	10.04
19	1,349	214	1,94	15.86	1,135	10.27	84.14	11,504	10,716	1.86	10.59
20	1,535	459	4.16	29.90	1,076	9.75	70.10	12,335	12,398	3.72	8.68
21 to 25	6,865	4,033	36.52	58,75	2,832	25.63	41.25	47,612	42,841	8.47	6.61
25 to 80	4,630	3,247	29.41	70, 13	1,383	12.53	29.87	52,878	48,463	6.14	2.85
80 to 85	1,755	1,210	10.96	68,95	545	4.94	81.05	43,280	39,977	2.80	1.86
35 to 40	948	604	5.47	63.71	844	8.12	36.28	89,975	85,060	1.51	.98
40 to 45	554	333	8.02	60, 11	221	2,00	89.89	82,729	28,284	1.02	.78
45 to 50	418	262	2.87	62.6 8	156	1.41	87.32	28,181	22,167	.93	.70
50 to 55	308	204	1.85	66.23	104	.94	83.77	24,130	18,144	.85	.57
5 5 to 60	193	141	1.28	78,06	52	.47	26.94	16,436	12,567	.86	.41
60 to 65	141	102	.92	72.34	39	.35	27.66	13,043	10,600	.78	.37
65 to 70	78	56	.51	71.79	22	.20	28.21	8,314	6,581	.67	.83
70 to 75	31	27	.24	87.10	4	.04	12,90	5,419	4,212	.50	.09
75 to 80	12	11	.10	91.67	1	.01	8.33	2,589	2,145	.42	.00
80 and over	4	8	.03	75.00	1	.01	25.00	1,719	1,532	.17	.07
Unknown Ages.	199	77	.70	38,69	122	1.10	61.81	212	151	36.33	80,78
Under 15	38				38	.35			26, 188		.14
15 to 20	4,373	272	2.46	6.22	4,101	87.14	93.78	48,337	58,956	.56	6,96
20 to 25	8,400	4,492	40.68	53.48	3,908	35.39	46.52	50,947	55,239	7.49	7.07

<sup>At which marriages occurred.
Population at ages at which marriages occurred.</sup>

TABLE VIII.—Continued.—Marriages by Counties, Nativity, and Periods of Age.

										•	•									•						
		NATIVITY	1	OF PERSONS MARRIED, 1874, STATED BY CAUPLES.	RSONS	NS MARRI COUPLES.	ied, iš	374, ST	ATED	ВУ			MARRI	Marriages at Different Agrs, Stated in Periods of Yeara—1574.	AT DI	FFER	ENT	AGE A-1	8. ST	ATE	D IN	PE	TODE	0.0		. 1
Num.	Num. Ler of			For-		FEMALES UNENOWN.	OWN.	MALES UNKNOWN.	CWN.	'U.M.O	SEX					20	97	455	200	- 12	0.0	- 19	- 02	- 15	-	1
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Charlevoix	ន	13	•	•	64					<u>i</u>	Males Females.	- 22	00 F	9	*	нн	-	-	Tİ	-1	-	11	1.4	1	H	; ;
Cheboygan.	8	80	۵.	-	-					-	Males	64 00	96	~ -	*	*	in	ii	ii	ii	Ti	11	11	11	11	
Chippewa	9	•	-					i		- 1	Males	∞	eo		-01	7	11	- 1	ii	ii	ii	11	+ 1	11	11	; ;
Clare	9	4	-		-				i		Males Females.	77	401	-		11	ii	Τİ	İΤ	1-	Tİ	-	- 1-1	11	11	: :
Clinton	8	127	•	E	2	1		69		7	Males Females.	~ £	23	≑ 8	Σœ	00 00	00 61	1-10	G8 00		**	-	-	7	11	•
Delta	8	2	3	2	•					<u> </u>	Males Females.	22	111	ថីស	8	04	11	ii	Tİ	ii	ii	11	-1.1	-11	11	::
Baton	8	202		2	•	-		-		69	Males Females.	~8	101	28	# 8	G1 00	10 01	-9	01.01	-1	0100	e9	7.1	H	11	~0
Emmet	ង	8	-	64	61					<u> </u>	Males Femules.	282	27	7		01	11	11	Ti	Ti	-	11	11	H	11	11
Genesee	314	3	92	9	8	-				-	Males Females.	124	146	28	82	91	r-9	=4	10 01	401	00 04		4 1	Ħ	11	!!
Gr. Traverse	*	ដ	*	•	••			-		•	Males Females.	24	811	219	80			Ti	- 1	ii	Ti	111	- (1)	H	11	
Gratiot	8	8		13	F	-		_ !			Males Females.	e, 1	48	7	~ *	9	60	01		-1	Tİ	11	-1.1	ij	11	
Hillsdale	\$	28	•••	92	<u> </u>	•	<u> </u>			<u> </u>	Males	182	25	83	# 22	23	C1 100	w →	G1 04	900	00 08	+		T	-	۵,

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70	88	នង	ω 8	-=	27	116	13	10	181	7	64	c. 88	∞ %	10	o.2	7	65
Males	Males Females.	Males Females.	Males Females.	Males	Malcs Femalcs.	Males Females.	Males	Males Females.	Males Females.	Males Females.	Males Females.	Males Females.	Males Females.	Males	Males	Males Females.	Males Females.
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TABLE VIII.—Continued.—Marriages by Counties, Nativity, and Periods of Age.

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Marquette	96	29	116	21	=	-					Males Females.	87.	28	23	27	200		4100	-	<u> </u>		<u> </u>			
Mason	31	83	7	•	83		-				Males Females.	- 23	E a	r-4	66 00	4 -1	1 1 1 1	<u> </u>	<u>- i</u>			11			11
Mecosts	87	4	25	15	7	-	-		-		Males Females.	-8	88	81	25°	207	69.00		-	<u>- i</u>	-	-			;;
Menominee	61	6	89	•	-	i	i				Males Females.	~ 00	∞ ∞	==	01		<u> </u>				<u>:::</u>	11			
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Missaukee	61	64									Males Females.		01	-		$\frac{\cdots}{11}$	11					11			11
Monroe	216	175	8	8	*	69		_		-	Males Females.	æ &	910	85	7,	52 80	- C - C - C - C - C - C - C - C - C - C	100	64 69	•		64			~*
Montcalm	165	100	8	18	13	67	-		61	-	Males	₹ 8	88	\$ 8	200	20		7	01 m	<u> </u>	64	<u>- :</u>			64
Muskegon	83	22	8	27	8		-				Males Females.	22	28	28	22	79	80	- 78	~	<u> </u>	<u> </u>				~ •
Newaygo	**	28	1	2	7					•	Males Females.	∞ 8	42	<u>89</u> 94	4~	40		61 60	01	1001				11	97 97
Oakland	273	191	21	8	11	**		-		22	Males	æ 88	88	83	22	- ST-		*	- !	~*	•				11

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<u> </u>	11	<u> </u>		<u> </u>	<u> </u>	<u> </u>	11	<u> </u>	<u> </u>	67 (8)	11	<u> </u>	G9 :	<u> </u>	
11	<u> </u>	<u> </u>	10 64	<u> </u>	<u>- i</u>	1:	<u> </u>	<u>" </u>	<u> :</u>	01:	 	69		8 †	<u> </u>
11	<u> </u>			<u> </u>	- 	-i-	11		- -		-::	<u>:</u>			
**	<u> </u>	7:	1004	<u> </u>	<u>" </u>	7:	<u>: 1</u>	01-	80 09	01 01	**	69 69	0100	767	<u> </u>
	<u> </u>	61 F	25	<u> </u>		4~	<u> </u>	201	<u>~</u>	••	01-1	10 04	87	24	<u> </u>
44		<u>- i</u>		<u> </u>	••	99 64	<u> </u>	-C 80	∞ ∞	664	∞ ⊣		20	82	e :
		-	60		48	40			7,	# B		<u> </u>		88	01 01
= 7		es 64			82	000		78	72	8=	6 10	22	20	88	1.
•		∞	#	-	\$ =	G1 KG		27	28	82	#	22	82	148	3
80	•	=4	85	40	<u>18</u>	82	8	22	118	86 55	\$ 1	22	<u>8</u>	344 183	6 10
88	40	12	8.2	69 ED	55	ន្តអ	e4	82	148	113	22	212	88	829 438	64
28	7	~8	~8	-01	135	92	-10	∞8	131	46	74	P E	~ Z	112	84.00
Males Females.	168	189	18	les	es	Males Females.	88	e	. 8	Males	8	8	108	108	18
Kale.	Males Females.	Males Females.	Males	Males Females.	Males Females	fale.	Males Females.	Males Females	Males Females.	fale	Males	Males	Males	Males Females.	Males Fomales.
			<u></u>	-:						44		<u> </u>	~=	74	
	-					i	:	4	•			4	63	11	
		-	- -	$\frac{\cdot}{1}$		<u> </u>	<u> </u>	-		-	<u> </u>	-		=	<u></u>
<u> </u>		i							:					11 11	
												69			
		:								1	:				
	•					1						69	8	1	
			1		-	-				1		67	60		
		62	1		9	1			99	1	1	2	***************************************	7 3 1	
9		2	91 1		48 6 1	19		91		60	л 1	13 1 2	14 1 4 8	98 7 3	
34 6	7 1	5	38 31	6	65 48 6 1 1 1	29 19		16 16		18 8 1	1 71 82	13 1 2	27 14 1 4 8	149 98 7 3 1	
8 8 14 6	7 1	11 4 7 2	74 89 91 1		121 65 48 6 1	47 29 19 1		13 16 16	143 66 KV 8	25 18 8 1	23 28 17 1	1 22 13	35 27 14 1 4 8	365 895 149 99 7 3 1	3 4
8 14 8	7 1	2 7 4 11 23	38 21 1	6	136 121 65 48 6 1 1	11 47 29 19 1	01	108 13 16 16	8 74 89 81 76	236 25 18 8 1	54 23 88 17 1	214 1 22 13 1 2	127 35 27 14 1 4 8	895 149 98 7 3 1	14 3 4 1

The number of persons returned as having been married in Michigan, in 1874, under the age of twenty-one years, is shown in Table IX., by counties and by sex. By this table it appears that 5,946 persons were married in 1874, under the age of 21 years, against 5,539 in 1873, 5,286 in 1872, 5,425 in 1871, and 4,905 in 1870.

Table IX. also shows the number of persons who were married under the lawful age, according to the returns. By this table and the corresponding ones for previous years, it appears that in 1874 there were 4 boys and 151 girls married who were under the lawful age; in 1873 there were 3 boys and 124 girls; in 1872, 5 boys and 148 girls; in 1871, 9 boys and 150 girls; and in 1870 there were 3 boys and 116 girls who were married before reaching the lawful age for marriage, which is eighteen years for males, and sixteen years for females.

TABLE IX.—Exhibiting, for the State and Counties, the Total Number, and Number of each Sex under 21 Years of Age; also, the Number of each Sex at each Age under that of Twenty-one Years, returned as having been Married in Michigan during the Year ending December 31, 1874.

STATE	Und	ONS MA ER 21 GE, 187	CARS	AGI	S OF	MA	LES,	1874.		AGE	S OF	FEM	ALES	, 187	١.	
AND COUNTIES.		Males.		Twenty.	Nineteen.	Eighteen.	Seventeen.a	Sixteen, a	Twenty.	Ninetoen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.a	Fourteen.a	Thirteen. 4
STATE	5,946	781	5,215	459	214	-	_	-	1,076	-	1,276	942	635	113		-
Alcona			7					_		1	3			-	-	-
Allegan	162			8	5	2			29	38	33	24		7.07		
Alpena	28		28						5	7	10	4				
Antrim	18			2					4	1	2	5	100			
Barry	109	13	96	8	2	3			99	21	22	11	14	4	2	
Bay	101	11	90	3	3	5			14	27	18	22	7	1	1	
Benzie	12	1	11	1					2	2	3		4			
Berrien	160	19	141	14	5				33	33	37	24	13		1	
Branch	201	37	164	23	12	2			41	32	41	33	16	1		
Calhoun	163	25	138	16	8	1			23	30	41	18	15	1		
Cass	127	19	108	10	7	2			20	25	31	13	17		2	
Charlevoix	16	2	14	1	1				2	3	1	3	4	1		
Cheboygan	18	3	10	1	2				2	4	2	2				
Chippewa	8	 .	3								3					
Clare	4		4						1		1			2		
Clinton	90	10	80	7	3				15	14	16	14	13	5	3	
Dolta	22	2	20	2					7	1	3	5	3		1	
Eaton	143	28	115	22	5	1			25	25	23	18	18	1		

Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4729), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464, printed also in back part of this Report.

	UND	ONS MA ER 21 GE, 1874	YEARS	AGE	SOF	MA	LES,	1874.		AGE	8 OF	FEM	ALE	3, 187	4.	
COUNTIES.	Total.	Males.	Fe- males,	Twenty.	Nineteen.	Eighteen.	Seventeen. a	Sixteen. a	Twenty.	Nineteen.	Eighteen.	Seventeen,	Sixteen.	Fifteen.4	Fourteen.a	Thirteen.*
Emmet	23	6	17	4	1		1		1		6	4	5		1	
Genesee	178	23	155	17	5	1			81	85	42	22	21	3	1	
Grand Traverse.	22	3	19	1	2				2	4	5	4	2	2		
Gratiot	66	10	56	8	2				12	8	10	15	10	1		
Hillsdale	247	43	204	26	12	5			45	55	40	35	20	6	3	
Houghton	72	6	66	6					12	. 8	22	15	8	1		
Hugon	53	5	48	4	1				10	8	6	9	12	3		
Ingham	179	28	151	18	8	2			26	38	35	27	18	5	2	
Ionia	143	23	120	15	8				24	30	26	17	20	3		
Iosco	15	3	12	2	1				1	8	3	3	1	1		
[sabella	37	5	32		4	1			5	5	2	10	7	2	1	
Jackson	183	18	165	11	7				49	40	39	18	15	2	2	
Kalamazoo	160	30	130	17	9	4			83	41	23	19	11	3		
Kalkaska	5		5							8	1	1				_
Kent	245	25	220	17	4	4			89	48	64	44	20	5		
Keweenaw	17	2	15	2					1	4	4	3	1	1	1	
Lake	9	2	7		2				3		1	2	1			
apeer	128	21	107	12	7	2			19	15	28	21	19	5		
Leelanaw	86	6	30	3	3			1	4	9	7	6	3	1	Ü.	
Lenawec	229	28	201	18	7	2	1			43	45	45	19	4	1	
Livingston	85	8	77	6	2			1	13	11	23	19	10	1		
Mackinac	11	2		1	1			****	2		4	1.0	3		****	1
Macomb	98		86	8	4				21	21	23	13	6	1		-
Manistee	29	1	25	4			****		8	7	1	8	6			
Manitou	5		5	Lif					1	2	1		1	****	****	-
	90	8	100	6	9	****			8	22	20	14	11	6	1	
Marquette	23	ů	1,00	L F		1			4	8	3	5	6		1	-
Mason			38	3	····	- 0	****	****		4		7	6	2	(0)	
Mecosta	42	_	- 27		1	1	****	***	8		11		-63		****	
Menominee	10	_	9		1	1			1	8	2		9	1		
Midland	13	1	12	1		1	****	***	2	1	3	3	2	1		
Missaukee	1	1		1		1		••••					****	****		
Monroe	144		- 75	12	7	1	****		26	25	31	25	15	2		
Montcalm	109	14	93	10	2	2			10	19	17	27	18	3	1	
Muskegon	72	5	67	****	4	1	****		16	13	15	13	7	3	****	

^{*}Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), and (4729), Compiled Laws of 1871, pages 1482, 1483, and 1484, printed also in back part of this Report.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

	Und	ns Ma kr 21 gr, 187	EARS	AGE	SOP	MAI	LES,	1874.		AGE	OF F	'EMA	LES,	1874		_
counties.	Total.	Males,	Fe- males.	Twenty.	Nineteen.	Eighteen.	Seventeen, a	Sixteen, a	Twenty.	Nineteen.	Elghteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.a	Thirteen.a
Newaygo	50	4	46	1	2	1			7	8	7	13	8	3		
Oakland	133	19	114	11	7	1			26	26	32	20	9	1		
Oceana	47	3	44	3					6	8	8	15	8	2	2	
Ontonagon	10		10						3	8		3		1		
Osceola	29	1	28		1				2	3	4	10	7		2	
Ottawa	120	13	107	8	3		1	1	22	25	32	17	9	1		3
Presque Isle	3	1	2		1						1	1				
Saginaw	189	16	173	9	6	1			38	81	38	28	27	7	4	
Sanılac	77	9	68	3	4	2			11	17	13	12	10	5		
Schoolcraft	7	2	5	1	1						3	1	1			
Shiawassee	85	9	76	6	2	1			16	18	13	17	11		1	
St. Clair	192	14	178	6	8				47	30	41	35	21	3	1	
St. Joseph	137	16	121	12	1	3			24	32	35	19	10	1		
Tuscola	86	2	84	2					10	10	25	22	14	3		
Van Buren	150	19	131	13	5	1			18	84	41	20	18			
Washtenaw	94	10	84	8	2				28	18	26	8	4			
Wayne	387	36	331	25	10	1			86	83	97	47	17		1	
Wexford	12	2	10		1	1			1	2	2	3	2			

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4720), and (4729), Compiled Laws of 1871, pages 1482, 1463, and 1484, printed also in back part of this Report.

MANNER OF UNION BY AGES.

The last column but one of Table X. shows the number of males married at the different periods of age; and the next to the bottom line of the table shows the number of females married at the different periods of age. The table is interpreted as follows: The 272 males who were married under 20 years of age, as shown in the next to the last column, married 225 females aged under 20 years, 41 aged 20 to 25 years, 3 aged 25 to 30 years, 2 aged 30 to 35 years, and 1 whose age was not returned, -272 in all; and so for each number in the column headed "Total Males" the females are distributed throughout the table to the left on the same line. The 4,139 females who were married under 20 years of age, as shown in the second line from the bottom, in the first column after "Total Females," married 225 males under 20 years of age, 2,442 aged 20 to 25 years, 1,145 aged 25 to 30 years, 230 aged 30 to 35 years, 56 aged 35 to 40 years, 17 aged 40 to 45 years, 8 aged 45 to 50 years, 7 aged 50 to 55 years, 1 aged 55 to 60 years, 2 aged 65 to 70 years, 2 aged 70 to 75 years, 1 aged 75 to 80 years, and 3 whose ages were not returned,-4,139 in all; and so for each number on the line of "Total Females" the males are distributed along in the respective columns, opposite the respective ages of the males, as shown in the left-hand column of the table.

TABLE X.—Exhibiting the Number of each Sex at each Period of Age who were Married in Michigan during the Year 1874; the Number of each Sex at each Period of Age who were United to the Opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at all Ages.

AGES					ΔG1	ES O1	f Fe	WAL	E8, 1	874.						rlos.	7 2 2 2 2 2
OF MALES, 1874.	Under 20.	20 to 25.	25 to 30,	30 to 35,	35 to 40.	40 to 45.	45 to 50,	50 to 55.	55 to 60.	60 to 65.	65 to 70,	70 to 75.	75 to 80.	So and Over,	Unk.	Total Males	Per Cent Grooms Each Age.
Under 20	225	41	3	2											1	272	2.46
20 to 25	2,442	1,760	240	27	3	3	1					1			15	4,492	40.68
25 to 30	1,145	1,413	530	86	32	11	5	1							24	8,247	29.41
80 to 35	230	428	317	167	40	16	5	2	2						3	1,210	10.96
35 to 40	56	174	145	112	76	26	11	1	****	1					2	604	5.47
10 to 45	17	53	77	57	64	43	15	5	1	1						333	8.02
45 to 50	8	23	37	45	57	43	31	12	3		1		,	. 1	1	262	2.87
50 to 55	7	6	22	27	38	41	29	24	7	2					1	204	1.85
55 to 60	1	7	7	16	16	19	27	25	13	8	2					141	1.28
80 to 65		1	5	5	14	12	20	22	8	12	3					102	.99
85 to 70	2	2		1	2	4	9	8	11	9	6	2				56	.51
70 to 75	2				2	3	3	3	4	4	5				1	27	.24
75 to 80	1							1	1	2	4	1	1			11	.10
80 and Over									2		1					8	.05
Unknown	8														74	77	.70
Total Females.	4,139	3,908	1,383	545	344	221	156	104	52	39	22	4	1	1	122	11,041	
Per Ct. of Brides at each Age	37.49	35,39	12.53	4.94	3.12	2.00	1.41	.94	.47	.35	.20	.04	.01	.01	1,10		100,00

GREAT DIFFERENCES IN AGES OF PERSONS MARRIED.

Table XI. contains data concerning certain marriages in 1874, in some of the counties, with unusual disparity between the ages of the two persons thus united. The couple between whose respective ages there was the greatest disparity, according to the returns, was married in Berrien county, where the bridegroom was 76 years of age, and the bride only 18 years,—a disparity of 58 years; the greatest disparity among those cases in which the bride was the older of the two appears for Saginaw county, the bridegroom being only 23 years of age, whereas the bride was 70 years of age,—a disparity of 47 years. The greatest in 1873 was 59 years, in Jackson county; in 1872 the greatest disparity was 55 years, in Benzie county; and in 1871 the greatest disparity was 55 years, in Hillsdale county.

TABLE XI.—Marriages with great Disparity of Ages of Persons Married in Michigan during the Year ending December 31, 1874.

	BRIDEGROOM OLI	DEST1	874.	BRIDE OLDEST	.—1874.	
COUNTIES.	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.	Occupation of Bridgegroom,	Age of Bride- groom.	Age of Bride.
Allegan	Agent	55	17	Farmer	29	45
Antrim	Lumberman	40	21			
Barry	Farmer	41	20	Farmer	37	63
Bay	Manufacturer of	43	22	Laborer	21	40
Benzie	Farmer	71	16			
Berrien	Farmer	76	18	Farmer	21	36
Branch	Physician	55	20	***************************************		
Calhoun	Farmer	68	85			
Cass	Farmer	50	19			1
Clinton	Shoemaker	44	21			
Eaton	Farmer	45	22	Farmer	25	55
Emmet	Farmer	a 63	a 36			1
Genesee	And the second s	45	16	And the state of t		7
Grand Traverse	Farmer	51	18	***************************************	******	***
Gratiot	Farmer and Car-	42	100	***************************************	******	****
Huron	penter & Joiner	100	19		32	
	Laborer	50 43	28 15	Farmer	32	5
Ingham	Farmer	66	24		******	777
Ionia	Carpenter	56	25	***************************************		
Isabella	Farmer	34	14	***************************************	******	2000
Jackson	Farmer	66	14	***************************************	******	
Kalamazoo	Blacksmith	72	19	Laborer	ь 30	6 43
Kent	Farmer	66	15	Mechanic	27	4.
Lake	Farmer	63	36	***************************************		****
Lapeer	Farmer	50	21	Farmer	48	63
Lenawee	Banker	54	20	Farmer	34	5
Livingston	Farmer	57	26	***************************************		
Macomb	Farmer	42	19	Farmer	21	46
Manistee	Civil Engineer	50	16		******	
Marquette	Machinist	51	28	Laborer	24	40
Mason	Carpenter	55	33		*****	
Mecosta	Laborer	44	18	Farmer	34	50
Midland	Editor	44	17	***************************************		
Monroe	Farmer	53	16			
Montcalm	Physician	74	43	***************************************	*****	****
Muskegon	Farmer	56	24	Fireman	30	43
Newaygo	Farmer	53	15			
Oakland	Farmer	51	29			
Oceana	Merchant and Man-	59	23			
Ontonagon	Farmer	42	16			
Ottawa	Lumberman	41	18			
Saginaw	Carpenter	42	15	Lumberman	23	70
Sanilac	Mechanie	43	19	Farmer	43	60
Shiawassee	Farmer	73	46	***************************************		
St. Clair	Sailor	52	16	Farmer	26	4
St. Joseph	Farmer	47	19	Parmet		
Tuscola	The rest of the second contract of	39	15	The state of the s	- Carrier	****
Van Buren	Farmer	40	22	Farmer	30	4
Washtenaw	Laborer	100	55	Farmer	32	1
The state of the s	Farmer	51	24	Farmer	46	56
Wayno	Liquor Dealer	69	21	Farmer	200	81
Wexford	Farmer	49	22	Laborer	27	40

* Indian. "African."

TABLE XII.—Exhibiting, for the State and Counties, the Number of Marriages in Michigan during the Years 1873 and 1874 as first Returned to the State Department; the Number Solemnised during the Years 1869, 1870, 1871, 1872, and 1873 returned previous to March 15, 1876; the Number Solemnized during the Years 1871 and 1872 returned previous to May 1, 1875, and since May 1, 1875, previous to March 15, 1876; the Population, 1874; Number of Inhabilants in 1874 to one Marriage in 1874; and the Per Cent. of Marriages in 1874 to Population in 1874.

STATE AND COUNTIES 1869. 1870. 1871. 1871. 1872. 1873. 1873. 1874.							MA	MARRIAG	H 8.								
Number Number Number Seturns of Jacks Number Seturns of Jacks Number Seturns of Jacks Setu		1868.	1869.	1870.		187L			1872.			1873.			Popula- tion, 1874, Repre-	Number of In- habita'ts	Per Ct. of Mar-
8,687 10,882 9,773 10,628 49 10,577 141 10,678 10,674 1,168 11,742 11,041 1,334,031 253 260 273 216 261 262 262 262 262 <t< th=""><th>STATE AND COUNTIES.</th><th></th><th>Number return- ed previ- ous to Mar. 15, 1876.</th><th>Number return- ed previous to ous to Mar. 15, 1876.</th><th>Number return- ed previ- ous to May 1, 1875.</th><th>Number return- ed since May 1, 1875.</th><th>Number return- ed previ- ous to Mar. 15, 1876.</th><th></th><th>Number return- ed since May 1, 1875.</th><th>Number return- ed previ- ous to Mar. 15, 1876.</th><th></th><th>Number return- ed since first compila- tion.</th><th></th><th></th><th>sented by Returns of Mar- riages for 1874.</th><th>in 1874 to one Mar. riage in 1874.</th><th>1874 to Popula- tion in 1874.</th></t<>	STATE AND COUNTIES.		Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previous to ous to Mar. 15, 1876.	Number return- ed previ- ous to May 1, 1875.	Number return- ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.		Number return- ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.		Number return- ed since first compila- tion.			sented by Returns of Mar- riages for 1874.	in 1874 to one Mar. riage in 1874.	1874 to Popula- tion in 1874.
253 260 278 216 21 251 251 242 8 4 3 7 10 1,214 24 44 44 8 31 215 251 251 242 8 290 277 32,381 15 44 8 31 18 20 42 16 42 16 4,807 8 8 4,807 8 8 4,807 8 1,907 8 1,907 8 1,907 8 1,907 1,907 8 1,907 1,907	STATE.	<u> </u>	10,392	9,773	10,528	9	10,577	10,537	Ħ	10,678	10,574	1,168	11,743	11,041	1,334,031	121	8.
253 280 278 216 216 216 216 216 216 216 216 216 216 216 216 216 216 216 216 217 218 <td></td> <td><u> </u></td> <td></td> <td>18</td> <td> •</td> <td>10</td> <td></td> <td>, aò</td> <td></td> <td>®</td> <td>7</td> <td>*</td> <td>7</td> <td>9</td> <td>1,214</td> <td>121</td> <td>8.</td>		<u> </u>		18	•	10		, aò		®	7	*	7	9	1,214	121	8.
94 44 8 31 80 80 40 </td <td>Allegan</td> <td></td> <td>98</td> <td>278</td> <td>215</td> <td></td> <td>215</td> <td>182</td> <td></td> <td>152</td> <td>242</td> <td>∞</td> <td>920</td> <td>277</td> <td>32,381</td> <td>117</td> <td>88.</td>	Allegan		98	278	215		215	182		152	242	∞	920	277	32,381	117	88.
15 14 16 18 18 20 42 42 42 30 43,240 148 158 173 156 156 156 156 156 156 175 175 175 175 175 175 175 175 175 176 175 176 176 176 176 176 175 176	Alpena		4	80	31		ĕ	23		23	67		43	28	4,807	50	1.21
148 158 173 156 156 156 156 156 156 156 156 156 156 156 156 156 156 175 156 156 156 176 175 156 156 176 175 156 156 176 22,051 22,051 22,051 22,052 2			*	16	22		18	8		8	3		67	8	* 8,240	108	88.
155 136 136 136 136 137 130 4 134 135 130 14 15 15 150 14 15 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14	Barry	148	168	172	156		156	32		156	181	-	185	176	22,051	125	8.
449 383 385 389 447 11 448 329 10 426 10 426 329 447 11 448 329 10 421 329 326	Вау	123	138	138	118	C1	120	175		175	25	*	154	203	24,832	122	88.
419 303 385 389 447 1 418 829 103 429 304 85,029 284 275 273 289 283 7 250 253 8 50 26,736 283 284 276 276 276 276 283 9 293 841 85,036 283 284 286 286 286 286 287 841 85,036 284 187 139 290 5 206 5 211 204 226 207 20,325 285 18 18 18 18 18 18 20	Benzie		13	18	11	-	18	=		71	83	-	77	11	2,663	157	3 .
284 275 289 288 265 263 7 253 7 253 85 294 855 7 253 285 285 855 285			88	385	308		808	447	-	448	833	103	432	304	85,029	115	78.
253 278 291 276 236 235 285 283 9 293 341 35,655 1 100	Branch	38	275	273	88		888	253	7	823	232	83	232	300	25,736	ន	1.20
. 224 187 189 500 6 206 206 5 11 204 22 226 202 20,525 1 		88	278	182	276		276	355		33	288	6	293	341	85,655	104	8.
	Cass	ž	187	139	8	10	202	903	10	211	\$	क्ष	226	202	20,525	102	88.
	Charlevoix	:		18			2			19	11		11	ន	2,360	25	.97

· Includes population of Otsego county.

TABLE XII.—Continued.—Marriages Corrected by Counties.

						MA	MARRIAGE	E 8.								
	1868	1869.	1870.		1671.			1872.			1878.		1874.	Popula- tion, 1874, Repre-	Number of In- habita'ts	Per Ct. of Mar-
COUNTIES.	Number return- ed previ- ous to Mar. 15,	Number return. ed previ- ous to Mar. 15, 1876.	Number return. ed previ. ous to Mar. 15,	Number return. ed previ- ous to May 1, 1875.	Number return- ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to May 1, 1875,	Number return. ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.	Number as first return- ed and com- piled.	Number return- ed since first compila- tion.	Number return. ed previ- ous to Mar. 15, 1876.	Num. ber ra- turned.	sented by Returns of Mar- riages for 1874.		
Cheboygan	•	23	7	126		5	7		7	23		ន	æ	8,070	183	8
Chippewa		13	13	n		11	7		7	2		9	•	2,170	38	88
Clare				13		13	80		60	12		35	9	1,354	25	\$
Clinton	191	218	181	176	-	111	162		162	77	23	197	160	23,661	148	8.
Delta	23	•	21	32		15	2	2	\$		13	17	88	4,741	25	8.
Eaton	161	188	214	722		227	976		240	179	ĸ	214	88	26,907	118	88.
Emmet	22	52	11	71		2	6		0.	10		9	ន	1,272	8	1.80
Genesee	772	343	324	88		288	887	m	163	808	103	813	ris	34,568	110	.9.
Grand Traverse	62	8	8	ន		R	x		23	25	1	æ	ಷ	5,349	157	\$.
Gratiot	8	8	#	111	-	112	3	9	8	121	91	140	8	13,896	\$	99.
Hillsdale	772	8390	325	324		324	355	69	367	808	8	758	\$	31,566	æ	1.38
Houghton	72	2	જ્ઞ	8		8	90		106	101		191	136	• 19,030	971	r.
Huron	3	67	73	8		8	81		87	8		8	28	11,964	23	8.
Ingham	021	825	212	823		823	818	0	227	888	19	888	ឆ	29,183	ğ	8.
Ionia	25	249	122	252	п	282	927	8	898 8	38	•	8	878	28,876	314	.87
I08c0	13	7	81	7		\$	9		97	3	04	8	15	b 4,789	222	‡ .
Isabolla	\$	25	87	28		8	2	61	7	31	7	28	8	6,060	181	88
Jackson	- 8	- 2	342	88	_	 88	813	_	818	- 83	\$	321	8	57,988	5	8 .

* \$ 3 4 \$ 5 6 6 8 6 6 8 1 8 8 8 8 8 8 8 8 8 8 8 8 8		. 24 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 1 31	566 588 588 588 588 588 588 588 588 588	4 1 1 8 8 6 7 8	4 68 81 11 88 4 45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 88 154 45 15 15 15 15 15 15 15 15 15 15 15 15 15	1,226 62,071 64,115 1,813 25,140 6,081 46,084 20,329 1,496 28,305 8,471	146 135 136 130 130 136 136	F. 88 88 . F. F. 17 . 17 . 17 . 17 . 17 . 17 . 1
428 493 445 445 445 445 445 445 445 445 445 44		23 34 34 25 12 28 12 12 28 12 12 12 12 12 12 12 12 12 12 12 12 12	256 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2				808 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 194 194 195 195 195 195 195 195 195 195 195 195	62,671 • 6,415 1,813 25,140 6,081 46,084 20,328 1,496 28,305 8,471	121 136 130 130 130 131 132 133 133 133 134 135 136	88. 88. 47. 70.1 60.1 60.1
18.5 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15		81 3 84 8 8 1 8 8 1 8 8 1 8 1 8 1 8 1 8 1 8	1 8 8 E 2 8 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E				8 II 8 4 4 4 8	38 11 194 43 43 101 101 101	6,415 1,913 25,140 6,081 46,084 90,889 1,496 28,305 8,471	136 130 130 135 135 137 137	56. 77. 88. 89. 70.1 70.1 67.
185 1199 1496 1486 1486 1486 1486 1486 1486 1486 148		81 3 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 160 160 160 160 160 160 160 160 160 160				11 188 188 44 44 44 44 44 44 44 44 44 44 44 44 4	14 th 15 th	1,813 26,140 6,031 46,084 90,339 1,496 28,306 8,471	130 130 104 104 155 157	F: 88
185 1160 1166 1455 1455 1455 1455 1455 1455 1455		8	8 2 8 8 2 8				8 4 4 4 8 5	194 441 151 180	26,140 6,031 46,084 20,329 1,496 28,306 8,471	130 190 104 135 157 157	77. 88. 87. 101. 104. 86.
29 45 455 455 455 455 455 455 455 455 455		3 3 5 8 8	E 2 8 E 8				7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 13 15 8 8E	5,031 46,084 90,329 1,496 28,305 8,471	130 135 57 157 188	88. 89. 1.07. 1.00. 1.00. 1.00.
116 148		84 8 18 8	22 82 12 so				787	13 8 8	46,084 90,529 1,436 28,305 8,471	104 135 57 157 126 82	. 28. . 74. 1.07 . 64. . 73
116 148 148 148 148 148 148 148 148 149 149 149 149 149 149 149 149 149 149		28 28 28 28 28 28 28 28 28 28 28 28 28 2	82 158 E				261 8 207	13 % 92	90,329 1,496 28,306 8,471	135 57 167 188	.74 1.07 .64 .79
17 3 8 206 231 281 84 85 86 145 146 146 26 62 88 66 62 88 7 9 9 81 26 9 1 1 1 223 227 8 80 126 125 101 132 133 80 66 66 80		* K &	83 12 8				. 68	8 8	1,496 28,306 8,471	57 157 128 82	1.07 .64 .79
281 281 281 281 281 281 281 281 281 281	231	28.	351				207	180	28,306	157	. 85. 85.
84 85 86 145 146 4 4 145 146 146 146 26 86 98 98 31 26 9 9 223 227 8 236 90 125 125 135 101 133 138 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66 66 80 66 66		**	<u>15 8</u>				911	-	8,471	92 28	1.20
145 1445 1445 1445 1445 1445 1445 1445	88		**			01	:	19	_	88	1.30
145 146 146 26 36 36 66 62 9 1 1 1 223 227 8 236 80 135 135 101 132 138 80 66 66	7	•		-		_	01	6 0	299		
266 662 683 683 683 683 683 683 683 683 683 683	346	345	194	-	- 36 - 36 - 36	71 17	8	508	21,946	107	ă.
66 62 63 31 26 63 1 1 1 26 90 125 227 8 224 90 125 125 101 132 125 80 66 66	***	8	<u>:</u> 용	-			7	83	5,381	145	8
253 227 8 2255 5 125 101 133 250 66 66 66 66 66 66 66 66 66 66 66 66 66	29	8	:	-				18	9, 133	36	8
31 26 26 1 1 1 1 223 227 8 236 90 125 125 126 101 133 138 138 60 66 66 66 80 66 66 66 80 67 800 66	6	6		_			81	61	3,490	184	Z.
223 227 8 236 90 125 125 101 132 138 69 68 68	88	8	23	-	8	-	8	ន	908'9 P	231	3
223 227 8 236 90 125 125 101 133 138 69 68 66	1	-		-			•	01	99	808	ä
90 125 125 101 132 138 50 66 66		288	Ž	8		13	248	246	30,111	122	86
101 132 138 1 60 66 66	125	251	97	<u> </u>		•	171	38	20,815	28	8
99 69 69	133	138	191	-		2	189	158	19,375	22	30. 63
038		\$	<u>:</u> 8	-	8 81		81	*	8,738	102	8.
000	350	988	300	80	239		\$	273	38,083	139	.72
79 61 60 60 5	8	8	23	-	33.	12	\$	+	8,360	100	8.

Includes population of Baraga county.
 Includes population of Ogenaw county.
 Includes population of Isle Royal county.
 Includes population of Gladwin and Roscommon counties.

TABLE XII.—Continued.—Marriages, Number Corrected by Counties.

						M. A.1	MARRIAGE	H 8.								
	1868.	1869.	1870.		1871.			1872.			1873.		1874	Popula. tion, 1874, Repre	Number of In- habita'te	Per Ct. of Mar-
	Number 1 eturn- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15,- 1876.	Number return- ed previ- oue to oue to May 1, 1875.	Number return. ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to May 1, 1875,	Number return- ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.	Number se first return- ed and com- piled.	Number return- ed since first compila- tion.	Number return- ed previ- ous to Mar. 15, 1876.	Num. bor re- turnod,	Beturns of Mar- risges for 1874.	in 1874 to one Mar- ringe in 1874.	1874 to Popula- tion in 1874.
Ontonagon	SI.	ä	п	9		•	컴		21	21	-	প্ল	11	2,406	172	83.
Osceola		27	71	31		33	¥		4	8		æ	41	6,216	132	.78
Ottawa	2007	215	187	ន្តី		ğ	85		130	83		823	763	88,929	134	.73
Presque Isle							•	1	10	2		7	91	1,615	162	8
Sagina w	158	38	310	888		88	3	92	58	83	4	432	879	48,409	128	.78
Sanilac	8	101	8	113		113	116	1	117	82	81	111	101	16,292	152	8.
Schoolcraft		i	64				10		ю	60	:	80	9	1,290	215	87.
Shis wassee	158	171	181	誓	0	363	132	83	135	116	8	155	152	21,773	. 143	6.
St. Clair	376	283	808	82		888	8	o	342	8	8	. 858	88	40,688	110	.91
St. Joseph	8	313	83	82		988	88		888	276	•	. 280	278	25,906	93	1.07
Tuscola	#	93	101	71	Ī	717	131		131	121	엄	133	121	16,998	140	r
Van Buren	283	3	213	83	-	227	223	ю	88	188	82	279	287	29,156	113	88.
Washtenaw	788	8	762	2		98	200		335	**	8	282	116	\$8,723	181	1 3
Wayne	\$	1,154	828	1,146	г	1,146	E	8	8 6	833	8	1,223	1,028	144,903	148	8.
Wexford		•	•	•	i	۵.	2	Ī	2	8		8	81	3,011	136	.7

EXHIBIT D.—Number of Inhabitants to one Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The statements for Michigan include only the Inhabitants of Counties represented by Returns of Marriages.

ŧ.						
COUNTRY, STATE, OR CITY.	rear for which the tatem't s made.	Inhabi to o Marri Annu	ne iage	COUNTRY, STATE, OR CITY.	Year for which the statem't is made.	Inhab- itants to one Mar- riage, Annu- ally.
Austria		117	1	Minnesota	1870	116
Bavaria		160		Massachusettsb	1870	99
Belgium		122		Massachusettsb	1871	95
Denmark		129		Massachusettsb	1872	96
England		122	1969.	Massachusettsb	1873	96
Finland		141	for 10	Massachusettsb	1874	108
France		122	ta fe	New Jersey	1870	135
Greece		174	Bot	New York Cityd	1869	108
Holland		129	Minn	New York City	1870	118
Norway		. 124	of M	Michiganfs	1869	109
Prussia		106	0	Michiganf	1870	120
Russia		111	tatistic	Michiganfs	1871	117
Saxony		107	Stat	Michiganfs	1872	122
Spain		141	:	Michiganfs	1873	116
Sweden		135	from	Michigans	1874	129
United States	1860	122	9 a f	Michiganb	1874	121
New York	1880	185	Tak			
Massachusetts	1865	97	[İ		
Ohio		105				
Minnesota	1860	110				
Minnesota	1968	107				

* Taken from Statistics of Minnesota for 1870.

b Taken from Registration Report of Massachusetts for 1875, page 27.

• There were 16 townships from which no returns of marriages were received. Computed from data in Report of New Jersey for 1870.

d Computed from data in Report of Metropolitan Board of Health for 1869.

• Computed from data in Report of Board of Health, of Health Department, for 1870.

f Marriages corrected, for additional returns, up to March 15, 1876.

s Population estimated from Censuses of 1860 and 1870.

b Population as per Census of Michigan, 1874.

DEATHS.

The returns of deaths for the year 1874 show that 12,500 persons died in Michigan during the year. This is 1,758 less than were returned for 1873, 871 less than were returned for 1872, 2,772 more than for 1871, 1,734 more than for 1870, 3,355 more than for 1869, and 4,265 more than were returned for 1868.

Applying the method of correction, used in previous Reports, for omissions in the enumeration because of the long time elapsing between the occurrence of the deaths and the enumeration, it is found that it is necessary to increase the number of deaths returned for 1874 by about 60.94 per cent. in order to obtain the number of deaths which probably occurred, according to that evidence. According to similar methods, the per cent. of increase for 1873 was 42.67; for 1872 the per cent. was 57.94; for 1871 the per cent. was 61.98. It thus appears that the per cent. necessary to be added for 1871 was greater than for 1874, but for 1872 and 1873 the per cent. was less than for 1874. The per cent. for 1874 was very much greater than for 1873; that is, judging from this system of correction, there were many more deaths omitted in the enumeration for 1874 than for 1873. On page 1 of this Report a similar fact was mentioned in regard to births, viz.: that the per cent. necessary to increase the number returned in order to equal the number which probably occurred is very much greater for 1874 than for 1873. There is not so much difference, however, between the per cent. necessary to increase the deaths for 1873 and for 1874, as between the per cent. necessary to increase the births for the same years. The average annual per cent. of increase required by this correction for the four years 1871-1874 was 55.88, which is not very much different from that shown for the year 1874. It is probable that the actual death-rate was less in 1874 than in 1873, and that the number shown by our system of correction as probably having occurred in 1874 is too large, because based upon an assumed relation between the numbers for December, 1873, and January, 1874, whereas any unusual death-rate in either of those months might vitiate the correction based upon them. Using the average annual per cent. for the four years 1871-1874 (55.88) we obtain 19,485 as the probable number of deaths which actually occurred in 1874,—only 633 less than the number found by using the average annual per cent. according to Exhibit C.

The averages for certain specified periods of time, including unknown month, are as follows:

Periods of Time.	As Returned.	Corrrected as per Exhibit C, 4th line.	Corrected with 55.88 per cent.
Average number per quarter	3,125.00	5,029.50	4,871.25
Average number per month		1,676.50	1,623.75
Average number per week	240.38	386.88	374.71
Average number per day	34.25	55.12	53.38

Table I. shows the number and per cent. of deaths, by quarters, for each of the years 1869-1874. The largest number and proportion of deaths are returned for the quarter ending with September, for each year exhibited in the table, the next largest being for the quarter ending with December; but this last showing is probably caused by the fact that less time elapses between the occurrence and the enumeration of the deaths during the last quarter of the year than elapses between the occurrence and the enumeration of the deaths in the fore part of the year; for, if we refer to Exhibit C, following, we find that, when the deaths are corrected for omissions in the enumeration caused by the time elapsing between their occurrence and their enumeration, the greatest proportion is shown for the quarter ending with September, and the next greatest for the quarter ending with June, instead of December, as in Table I.

TABLE I.—Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total Returned for each of the Years 1869 to 1874, inclusive.

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1969.		1870.		1871.		1879.		187 3 .		1874.	
	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ot, of Total,
Totals	9,145	100.00	10,786	100,00	9,728	100.00	18,871	100,00	14,258	100,00	12,500	100.00
March	1,758	19.92	1,696	15.77	1,888	19.41	2,299	17.19	8,911	22,52	2,246	17.97
June	1,994	21.80	2,191	19,70	2,097	21,55	2,934	21,94	3,835	22,39	8,039	24.81
September	2,949	32,24	8,920	36.41	2,926	80,08	4,441	83,21	4,182	29,23	3,870	30,96
December	2,396	26.20	2,992	27.79	2,780	28.87	8,667	27.43	3,461	24.28	8,299	26,39
Unknown	48	.52	3 5	.82	57	.58	30	.22	60	.48	46	.87
Average	2,286,25	25.00	2,691.50	25.00	2,432.00	25.00	8,849.75	25.00	8,564.50	25.00	8,125.00	25.00

Table II. contains the number, and per cent. of total deaths, by months, for each of the years 1868–1874, the months arranged in order by number of deaths, the greatest number first. In 1868, 1869, and 1874, September heads the list, and in each of the other years August has the greatest number. The deaths seem to have been more evenly distributed throughout the year in 1874 and 1870 than in any other year, six of the twelve months having more than the monthly average proportion of deaths. If the deaths were corrected for omissions in the enumeration, the order of the months would probably be changed.

TABLE II.—Deaths in Michigan, by Months, Exhibiting the Number and Per Cent. of Total Returned for each of the Years 1868 to 1874, inclusive, the Months arranged in Order by Number of Deaths, the greatest Number first.

		1968.			1869.		г	1870.			187 L			1872.			1873.			1874.	
EE	Feer and Months.	Num-	Ct. of Total.	Year and Months.	Num- ber.	Per Ct. of Total.	Year and Months.	Num.	Total	Year and Months	Num. ber.	Per Ct. of Total.	Year and Months.	Num- ber.	Per Totol	Year and Months.	Num. Der.	Per Ct. of Total.	Year and Mouths	Num- ber.	Per Ct. of Total.
GR O	Year	·	8,235 100.00	Year	9,145	100.00	Year	10,786	100.00	Year	9,728	100.00	Year	13,371	100.00	Year	14,238	100.00	Year	12,500	100.00
:	Sept.	1,041	12.51	Sept	1,194	13.06	Ψα ξ	1,473	13.59	Aug	1,063	11.18	11.18 Aug	1,738	13.00	13.00 Aug	1,535	10.77	10.77 Sept	1,517	1 21
94	2 Aug	88	11.83	Aug	1,068	11.60	Sept	1,363	12.06	Sept	1,065	10.8	Sept	1,663	12.36	12.36 Sept	1,471	10.32	10.32 Aug	1,338	11.10
**	8 Oct	776	9.43	Oct	874	3.6	9.65 Oct	1,132	10.51 Dec.	Dec	1,029	10.58	10.58 Oct	1,821	88.6	9.88 Oct	1,258	8.8	Oct	1,211	9.69
	4 July	747	9.07	Dec	88		9.14 July	1,084	10.06 Oct.	Det	888	8.50	9.59 Dec	1,258	9.63	9.63 March.	1,248	8.76	8.75 Dec	1,120	8.96
	5 March	8	8, 12	March	761	8.32	Nov	8	8.66	8.66 Nov	8	8,38	8.20 April	1,140	8.63	8.68 July	1,176	œ Si	April	1,102	8.81
	6 Dec	8	8.11	April	712		7.78 Dec	927	8.61	8.61 July	28	8.10	8.10 Nov	1,068	7.91	7.91 April	1,174	8.33	May	1,071	8.57
7	7 Nov	8	7.31	July	788	7.51	7.51 June	25	2.0	7.00 March.	781	8	8.08 July	1,060	7.85	7.86 Dec	1,136	7.97	7.97 Nov	88	7.74
	8 Feb	33	7.07	Nov	88		7.50 March.	727	6.73	6.73 May	25	1.71	7.71 May	828	7.32	7.32 May	1,121	7.87	7.87 July	3962	7.72
6	9 April 2	₽ 583	7.07	May	83		7.18 May	88	8	6.30 April	12	7.41	7.41 March.	176	7.0	7.04 Feb	1,104	7.74	7.74 March.	919	7.85
70	10 Jan	33	6.49	June	8	88	6.89 April	82	8	6.29 June	936	6.45	6.43 June	8:5	6. 10	4.10 Nov	1,067	7.49	7.49 June	998	6.93
11.	11 May	200	6. 10	Feb	198	6.13	6.13 Feb	33	£ 13	5.13 Feb	878	28	5.94 Feb	756	5.65	6.65 June	1,040	7.30	7.30 Feb	672	5.38
13	13 June	283	5.82	Jan	83	4.77	4.77 Jan	4 31	3.91	3.91 Jan	20	5.44	5.44 Jan	808	4.50	1.50 Jan	828	8.0	6.02 Jan	888	5.24
-	Unk	ន	.76	Unk	\$	25	.52 Unk	23	Si.	.22 Unk	22	2	.59 Unk	8	8	.03 Unk	8	.48	.48 Unk	46	.87
-	Average. 686.25	686.25	8.33	Average.	762.08	8.	8.33 Av'ge - 897.16	807.16	8	8.33 AT'ge. 810.66	810.66	8	8.33 Av'ge . 1,114.25	1,114.25	88	8.83 Av'ge 1,188.17	1,188.17	SS.	8.33 Av'ge 1,041.67	1,041.67	8.83

. The number of deaths for April, 1988, is increased by one-afth of the number published in the Second Registration Report, for the reason that the first five days was 436; 486+25-367; 486+97-583-estimated number of deaths for April, 1988.

Table III. shows, by months, the number of deaths in 1874, by sex of decednts, the excess of males, and the number of males to 100 females. The greatest excess of males was in April, the least in January. Six out of the twelve months had more than the average excess and proportion of males.

TABLE III.—Number and Per Cent. of Deaths of Males and of Females from All Causes, as Returned, by Months. (Unknown Sex Excluded.)

YEAR AND MONTHS.	AS RE	OF DEATHS TURNED, 374	PER CE	T. OF BAC L OF BOTH		Males to
IBAB AND MONIAG.	Males.	Females.	Males.	Females.	Excess of Males.	100 Fe- males.
Year, 1874	6,665	5,804	53.45	46.55	6.90	114.8
January	335	820	51.15	48.85	2.80	104.7
February	849	819	52.25	47.75	4.50	109.4
March	500	416	54.59	45.41	9.18	190.1
April	606	496	54.99	45.01	9.98	199,9
May	551	518	51.54	48.46	8.08	106,4
June	471	395	54.39	45.61	8.78	119.9
July	524	435	54.64	45.36	9,28	190.5
August	736	651	53.06	46.94	6.19	118.1
September	802	711	53.01	46.99	6.02	112.8
October	640	567	53.02	46.98	6.04	1129
November	517	448	53.58	46.42	7.16	115.4
December	606	510	54.30	45.70	8,60	118.8
Unknown	28	18	60,87	39, 13	21.74	155.6

Exhibit A contains data concerning the deaths in 1874, by sex and by months equalized to uniform length. The greatest proportion of deaths were returned for September, the smallest for January.

Exhibit C contains statements of the deaths, by months, as returned, and as corrected for omissions in the enumeration and for increase of population, and equalized to months of uniform length; it also indicates the method of the correction.

The data in this exhibit and similar exhibits for previous years, are graphically represented in Diagram No. 3, page 123. The line for 1872 is the highest in August and September, and the first prominent rise in the lines for 1872 and 1874 is in April. The first prominent rise of the line for 1873 is in February.

EXHIBIT A.—Decedents of each Sex, and Total Number of Deaths, in Michigan during the Year 1874, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR		R OF DEA				OF DEATH		H Month Tran.	TOTAL	OF EACH OF BOTH WN EXCLU	SEXES,
MONTHS.	Total.	Malca,	Fe- males.	Un- known.	Total.	Males.	Fe- males.	Un- known.	Males.	Fe- males.	Excess of Males.
Year, 1874	12,49,1	6,660	5,800	81	100.00	100.00	100,00	100,00	53.45	46.55	6.90
January	643	329	814		5.15	4.94	5.41		5L17	48,83	2.34
February	730	379	847	4	5.84	5.60	5.98	12,90	52.20	47.90	1.40
March	902	491	408	8	7,22	7.87	7.03	9.68	54.62	45.88	9.34
April	1,118	615	503		8,96	9.23	8.67		55.01	44.90	10.01
May	1,052	5 <u>4</u> 1	509	2	8,42	8,12	8.78	6.46	51.52	48.48	8.04
June	879	478	401		7.04	7.18	6.91		54.88	45.62	8,76
July	948	515	427	6	7.59	7.73	7.36	19.36	54.67	45.33	9.84
August	1,363	723	639	1	10.91	10,86	11.02	3,23	53,08	46.92	6.16
September	1,539	813	722	4	12.82	12.21	12.45	12,90	52.96	47.04	5.91
October	1,189	628	557	4	9.52	9.43	9.60	12,90	53.00	47.00	6.00
November	982	525	454	8	7.86	7.88	7.83	9.68	53,63	46.87	7.96
December	1,100	595	501	4	8.81	8.98	8.64	19.90	54.99	45.71	8,56
Unknown	46	28	18		.87	.43	.81		60.87	39,13	21.74
Average	1,037.08	552,67	481,83	2,58	8.83	8,33	8.33	8.83			

Ninc lost in equalizing,—5 males and 4 females.
 Unknown month excluded.

EXHIBIT B.—Months arranged in Order for each of the Years 1867 Census and by the State Re

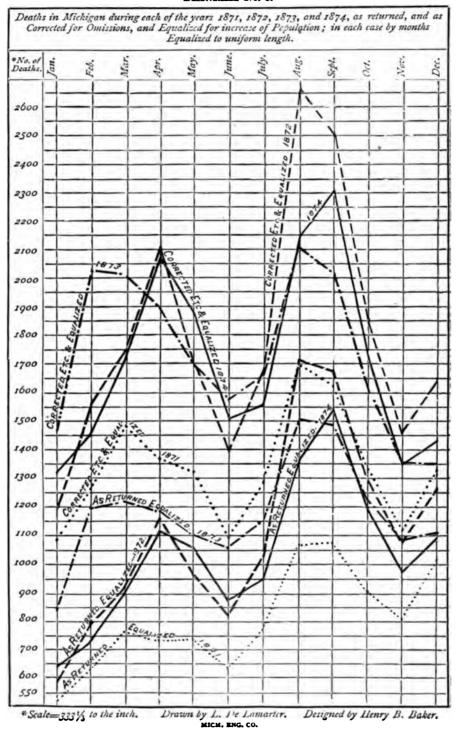
			~	Mar acedi	UBBTTB.	_			MICHIGAM, FOR CEMBUS YEAR EMPING JUNE 1, 1870.	Mers Mers 1870.	Kig	Heam,	1	Michigan, as per Registration	BTBATI		Mic	HIGAM,	Conni	MICHIGAM, CORRECTED FOR	NO.	REOD	RHODE ISLAND, EXCIU-	KD, KS	CET Q-
*83		KKCLUI	B DXIA	Excluding Still-bister.	IT HE		Including Brill-meter		Re- turn'd Begis by tra- Cen. tion	3 1 0	Reto	i (100	KOLUDA	Returns, Including Still-Birthes.	LL-BIR	į	INC	LUDIN	o Str	INCLUDING STILL-BIRTHS.	#	T	DING STILL-BIBTES	L.BIRT	
EGEO	1867.	1868	1869. 1870.		187L	1878.	1873.	1874	a A a	a t	1869.	1870.	1871	1871 1872 1873.	1873.	1874.	1870.	187L	1872.	1873.	1874.	1871.	1872.	1878	1874.
1	ng.	108.	Aug.	Aug.	Aug.	1 Aug. Aug. Aug. Aug. Aug. Aug.	Aug.	Aug.	Mar.	Sept.	Sept. Sept. Ang.	Aug.	Aug.	Aug. Aug. Ang.	Aug.	Sept.	Sept. Aug. Aug. Aug.	Ang.	Aug.	Aug.	Sept.	Aug.	July. Ang.	Aug.	Aug.
8	ept. S	Sept.	Sept.	July.	July.	2 Sept. Sept. Sept. July. July. July. July. Sept.	July.	Sept.	May. Aug. Aug.	Aug.		Sept.	Sept.	Sept. Sept. Sept. Sept. Aug.	Sept.	Aug.	Sept. Sept.	Sept.	Sept. Mar.		Aug.		July. Aug. July.	July.	Sept.
8	۔ و	July.	Yar.	Sept.	Sept	S Dec. July. Mar. Sept. Sept. Sept. Sept. May. Aug.	Sept.	May.	Aug.	8	8	8 £	Dec.	Dec. Oct. Oct. Oct.	00 c.	Oct.	July. Mar. Apr.	Mar.	Apr.	Sept. Apr.	Apr.	Sept.	Sept.	Sept. Apr.	Apr.
7	BD.	Mar.	July.	4 Jan. Mar. July. Oct. Apr. Mar.	Apr.	Mar.	Mar.	8	Sept. Dec.		2 2	July.	July. Oct. Dec.	Dec.	Mar.	Dec.	Mar. Dec. Oct. Dec. Oct.	Dec.		Apr.	MAY. Dec.		Dec.	May.	July.
20	ie.	ر اود		5 Mar. Oct. Oct. Mar. Jan.		Ď Č	Jan.	96	Dec. Apr. Mar. Mar.	Mar.		Nov.	Nov.	Nov. Nov. Apr. July. Apr.	July.	Apr.	Mar. Oct. Mar.	š.		Feb. Oct.	Oct.	Mar.	Mar.	Jan.	Oct.
<u>6</u>	uly.	Dec.	May.	6 July. Dec. May. Dec. Mar. Oct.	Mar.		Apr.	Jaly.	July, Feb. May. Apr. Dec. July, Nov. Apr. May. June, May. May. May. May. Feb.	May.	Apr.	Dec.	Jaly.	Nov.	Apr.	May.	June.	May.	May.	May.	Mar.		oct.	Apr.	May.
Z	ر ٥٠.	Apr.	Apr.	Nov.	May.	7 Nov. Apr. Apr. Nov. May. Apr. Oct.		Apr. Oct.		July.	Jaly.	June.	Mar.	July.	Dec.	Nov.	Apr.	Apr.	July.	July.	July.	July, July, June, Mar. July, Dec. Nov. Apr. Apr. July, July, July, Oct. Apr.		Mar.	Jan.
8	ct.	reb.	Dec.	Jan.	Oct.	8 Oct. Feb. Dec. Jan. Oct. May. Dec.		Mar. Dec.		Nov.	Nov.	Mar.	May.	Nov. Nov. Mar. May. May. May. July. Nov. July. Dec. Oct. Dec. Jan.	May.	July.	Nov.	July.	Dec.	Set.	Dec.		Nov.	Doc.	Dec.
8	Tay.	- Pa	Jan.	9 May. Jan. Jan. May. Dec.		Nov.	May.	Nov.	May. Nov. Jan. Apr. May. May. Apr. Mar. Feb. Mar.	Apr.	May.	May.	Apr.	Mar.	Feb	Mar.	May.	Feb.	Nov.	May. Feb. Nov. June. Junc. Nov.	June.	Nov.	May. Oct.		Nov.
10	ep.	Yov.	Feb.	10 Feb. Nov. Feb. Apr. Feb.	Feb.	Feb.	Nov.	Jan.	Nov. Jan. July. June. June. Apr. June. June. Nov. June. Dec. Nov. Feb. Jan.	June.	June.	Apr.	June.	June.	Nov.	June.	Dec	Nov.	Feb.	Jan.	Nov. Apr.	Apr.	Feb.	Feb.	Mar.
11	pr.	fay.	Nov.	Feb.	Nov.	11 Apr. May. Nov. Feb. Nov. June Feb. Feb. Nov. Feb. Feb. Feb. Feb. Feb. June Feb. June Feb. Jan. June Dec. Jan.	Feb.	reb.	Nov.	Feb.	Feb.	Feb.	Fob.	Feb.	June.	Feb.	Feb.	Jan.	June.	Dec.	Jan.	May. June. Nov.	June.		June.
12 7.	une.	une.	June.	June.	Jane.	12 June, June, June, June, June, June, June, June, June, Jan, Jan, Jan, Jan, Jan, Jan, Jan, June, Jan, June, Jan, June, Feb,	June.	June.	June.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	June.	Jan.	Nov.	Feb.	June.	Jan.	June.	Feb.

EXHIBIT C.—Deaths in Michigan during the Year 1874 as Keturned; as Corrected for Omissions in Finumerating; the same Equalized for Increase of Population during the Year covered by the Keturns; and the Peaths as thus Corrected and Equalized for the several Mouths, Equalized for Mouths of a uniform length of 30.44 days; also indicating some of the steps by which these results have been reached.

		•	•	ı		Ž	MONTHE, 1874.	18.1					
	ž				Ē	May.	June. July.		Ynk.	Mejit.	 5 5		Dec.
Doaths as returned by Registration Officers	12,454	3	. हु :	910	20.7	1,07	, Ž	- S	¥.	1,517	1:1	ž	S. 1.
Por cent, of deaths to be added for correction for time olapsing before enumeration		57.70	91.61	KS. 50	8	75 F2	67.17	61.00	84.95 SH.95	72.27	5	30,02	30.51
Number of deaths to be added for above correction	7,500	3	910	£	875	£	3	2	743	7	210	ā	ri:
Deaths, if enumerated in months of occurrence	H0'08	1,203	283	1,706	1,077	1,836	1,448	99.	. <u> </u>	¥61	¥.	1 2	1,403
Per cent. of deaths to be added to equalize them to population at close of year		1 2	e2 80	3,61	8.16	. E2	9.40	=======================================	1.78	===	8	-2	ક્
Deaths to be added to equalize them to population at close of year	9	3	8	8	2	20	æ	23	蓋	22	=	=	9
Deaths as corrected, equalized to population at close of year	30 +00	38,	1,338	1,766	80.	8	1,484	1,887	3,180	2,200	1,740	1,33	1,467
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	*	28 27	+244	8 8	77 18	8 8	3 8	8 8	8 9	. 3. 2	8 2	# B	8 8
Deaths, corrected and equalized, equalized to months of uniform length	90,800 1,826	1,836		1,783	2,070	1,874	1,306	1,664	1,456 1,783 2,070 1,874 1,506 1,588 9,140 2,324		1,714	1,880	1 2

. Excluding 46 in unknown month.

DIAGRAM No. 3.



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g EXHIBIT E.—Deaths in Michigan during the Year 1874 as Returned, as Corrected for Omissions in Enumerating, and the Corrected, Equalized to Months of Uniform length of 30.44 days each.

						Ř	ONTH	Моктив, 1874.					
•	TOTAL .	Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct.	eb.	er.	H	, ,	an S	July.	J ny	Sept.		Nov.	Dec
Deaths as returned by Registration Officers	19,454	3	 E	919 1,102 1,071	8	Ę	*	8	966,1,386	1,617 1,911	1,211	8	1,130
Per cent, of deaths to be added for correction for time elapsing before enumeration		97.72 91.61		86.50 78.39 78.29 67.17	8	88 gd	67.17	61.06 54.95	26	48.84	£ 73	38.63	30.51
Number of deaths to be added for above correction	7,880	3	616	86	878	18	88	88	28	2	517	2	843
Deaths, if enumerated in months of occurrence	20,044 1,395 1,705 1,977 1,806 1,446	8	8	1 2	E	88,	1,448	15	1,654 2,151 8,258 1,728	884	1,78	25, 25,	1,468
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.		56 +244		-31 +36 +.4456 +.4451 +.31	+ + 2 8	2 3	+ + 22	% %	\$ 8	14. + . 44.	8 5	+ + 4: 4	1 2 8
Deaths, corrected and equalized to months of uniform length	90,046 1,272 1,400 1,674 9,006 1,832 1,469 1,526 9,113 9,391 1,697 1,341 1,436	273	8	8	8	88	1,469	1,526	2,113	8,48	1,667	1,341	1,438

Excluding 46 in unknown month.

nay be seen that 26.98 per cent. of all the deaths in 1874 were of those under one year of age, and 41.10 per cent, were of ing tables for previous years, but for decedents aged under one year, the per cent. in 1874 is considerably larger than the average for previous years. Taking the five years 1870-1874, we find the average per cent. of decedents aged under one year is 24.80, and the average per cent. of decedents aged under five years is 41.21. In 1874, the proportion of the decedents aged under one year was greater than for any previous year, and the proportion of decedents aged under five years was less than any previous year except 1871. The number of males to 100 females has been constantly decreasing since 1871, it being 116.55 for 1872, 116.10 for 1873, and 114.83 for 1874. At the period of life between the ages of fifteen and forty those under five years of age. Nearly the same proportion for decedents aged under five years is shown in the correspondyears, the proportion of the sexes of the decedents was very much greater among the females, but at other periods of life the excess is among the males; this is true as a general statement, as the statistics of deaths for several years show.

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1874; also the Excess of Persons of each Sex.

AGES IN	Numb	ER OF	Деатив ,	1874.	AT KA	NT. OF I CH AGE T ALL A	to To-	FER U	ent. of			Excess Sr: By Nu		Males to 100
AND PERIODS.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Males.	Fe- males.	Exc Males.	Fe- males.	Malos.	Fe- males.	Fo- males.
All Ages	12,500	6,665	5,804	81	100.00	100.00	100,00	53.45	46.55	6.90		861		114.83
Under 1	3,373	1,907	1,436	30	26.98	28.61	24.74	57.04	42,96	14.08		471		132.80
1 to 2	872	463	409	•••••	6.97	6.95	7.05	53.10	46,90	6.20		54		113,20
2 to 3	402	214	188		3,22	3,21	3,24	53.23	46.77	6.46		26		113,83
3 to 4	280	132	148		2,24	1.98	2.55	47.14	52,86		5.72		16	89.19
4 to 5	211	112	99		1.69	1,68	1.70	53.08	46.92	6.16		13		113.03
Under 5	5,138	2,828	2,280	30	41.10	42,43	39.28	55.36	41.64	.62		548		124.04
5 to 10	594	321	273		4.75	4.82	4.70	54.04	45.96	8.08		48		117.58
10 to 15	359	183	176		2.87	2.74	8.03	50.97	49.03	1.94		7		103.98
15 to 20	530	235	295		4.24	3,42	5.08	44.34	55.66		11.32		60	79.66
20 to 25	618	273	345		4.94	4.10	5.94	44.17	55.83		11,66		72	79.13
25 to 30	514	227	287		4.11	3.41	4.94	44.16	55.84		11.68		60	79.10
30 to 85	434	184	250		8.47	2.76	4.31	42.40	57.60		15.20	 	66	73.60
35 to 40	440	189	251	 	8.52	2.84	4.32	42,95	57.05		4.10		62	75.30
40 to 45	390	202	188		8, 12	8.08	8.24	51.79	48.21	8.58		14		107.45
45 to 50	384	224	160	 .	8.07	3.36	2,76	58.33	41.67	6.66		64		14.00
50 to 55	397	231	166		3.18	8.46	2.86	58.19	41.81	16,38		65		133.13
55 to 60	398	232	166	 	8.19	8.48	2.86	58,29	41.71	16.58		66		189.76
60 to 65	460	293	167		3,68	4.40	2.88	63.70	36.30	27.40		26		175,45
65 to 70	454	279	182	 -	8.03	4.08	8.14	59.91	40.09	19.82		90		149.45
70 to 75	434	252	182	 -	8.47	8.78	8,14	58.06	41.94	16.12		70		138,41
75 to 80	318	191	127		2.55	2.86	2,19	60.06	39.94	20,12		64		142.52
80 to 85	232	121	111		1.86	1.82	1.91	52.15	47.84	431		10		109.01
85 to 90	104	53	51		.83	.80	.88	50.96	49.04	1,92		2		108.92
90 to 95	40	22	18		.32	.83	.31	55.00	45.00	5.00		4		122,23
95 to 100	21	4	17		.17	.06	.29	19.05	80.95		38,10		13	23.52
100 and over	10	4	6]	.08	.06	.10	40.00	60.00		20.00		2	66.67
Unk'n Ages	231	194	106	1	1.85	1,86	1.83	53.91	46.09	7.82		18		116.98

An exhibit on the plan of Exhibit G, page 129, was published for the first time in the Report for 1873. It is valuable in showing the influence of the season of the year upon the mortality among persons in different periods of life. The teaching of this exhibit for 1874 is that, of the decedents under one year of age, the largest proportion (15.50 per cent.) died in August, and that the per cent. of decedents under one year of age to decedents at all ages was greater (37.61) in

August than in any other month of the year; of the decedents under five years of age, the proportion is greater (15.45) in September than in any other month, and the per cent. of decedents aged under five years to decedents at all ages is the greatest (55.19) for August; of the decedents aged five to ten years, the proportion is greater (10.13) in October than in any other month, and the per cent. of decedents aged five to ten years to decedents at all ages is greatest (6.26) for January; of the decedents aged ten to twenty years the greatest proportional mortality (12.53 per cent.) was in October, and the per cent. of decedents aged ten to twenty years to decedents at all ages was greatest (9.23) in February; of the deaths of persons between the ages of twenty and fifty years the largest proportion (10.89) is shown for December, and the per cent. of decedents aged twenty to fifty years to decedents at all ages was greatest in May (28.01); and of the deaths of persons aged fifty years and over the greatest proportional mortality was in April, and the per cent. of decedents aged fifty years and over to decedents at all ages was also greatest in April (27.59). The popular statement of the showing of this exhibit concerning the danger to persons at the different periods of life is: to persons under one year of age, the greatest danger is in August; to persons under five years of age, the greatest danger is in September; to persons aged five to ten years, the greatest danger is in October; to persons aged ten to twenty years, the greatest danger is in October; to persons aged twenty to fifty years, the greatest danger is in December; and to persons aged over fifty years, the greatest danger is in April. The specific diseases or causes of deaths from which the danger is in each of these cases, may be learned from tables further on in this Report.

EXHIBIT F.—Decedents in Michigan in 1874 by Sex, and Excess of the Sexes, by Age in Years.

AGE	I	ECEDEN	TS, 187	4.	Exc	E88.	AGE	L	ECEDEN	TS, 187	٤.	Exc	RAS.
IN YEARS.	Total.	Males.	Fe- males.	Unk.	Malos.	Fe- males.	IN YEARS.	Total.	Malos.	Fe- males.	Unk.	Malos.	Fe- males.
All Ages	12,500	6,665	5,804	81	861		14	89	48	41		7	
							15	68	87	81		6	 -
Under 1	3,878	1,907	1,436	30	471		16	111	48	63			15
1	872	463	409		54		17	111	52	59			7
2	403	214	188		26		18	108	41	67			26
8	280	132	148		. .	16	19	132	57	75			18
4	211	112	99		13		20	114	55	59			4
5	168	84	84				, 21	121	46	75			29
6	119	65	54		11		22	122	67	55		12	
7	113	63	50		13		23	115	43	72			99
8	105	61	44		17		24	146	62	84			25
9	89	48	41		7		25	125	62	63			1
10	81	44	87		7		96	93	39	54			15
11	67	84	83		1		27	106	44	62			18
19	57	26	81			5	28	111	50	61			11
13	65	31	34		 	3	29	79	32	47			15

EXHIBIT F.—Continued.—Decedents in Michigan in 1874.

AGE	D	eceden	тв, 187	6.	Exc	Ess.	AGE	I D	ECEDEN	TS, 187	<u>.</u>	Exc	TOS.
IN YEARS.	Total	Males.	Fe- males.	Unk.	Males.	Fe- males.	IN YEARS.	Total.	Males.	Fe- males.	Unk.	Males.	Ye- males,
30	96	39	57			18	68	82	57	25		32	
31	83	39	44			5	69	94	54	40		14	
32	94	44	50			6	70	91	50	41		9	
33	86	26	60			84	71	68	42	26		16	
84	75	36	359			8	72	92	55	87		18	
85	112	55	57			2	78	76	49	27		22	
36	78	27	51		 	24	74	107	56	51		5	
87	85	87	48			11	75	77	45	82		18	
38	85	39	46			7	76	63	41	22	·	19	
39	80	31	49			18	77	76	44	82		12	
40	94	53	41		12		78	53	29	24		5	
41	73	24	49	•••••		25	79	49	32	17	 -	15	
42	75	89	36		8		80	56	81	25	 -	6	
43	72	41	31		10		81	84	22	12		10	
44	76	45	81		14		82	44	20	24			4
45	90	59	31		28		83	41	21	20		1	
46	73	51	22	<u> </u>	29		84	57	27	80			8
47	74	41	33		. 8		85	21	11	10		1	
48	80	38	42			4	86	22	13	9		4	
49	67	35	32	 	3		87	27	14	13	 -	1	
50	115	71	44	 .	27		88	19	8	11	 		8
51	55	36	19		17		89	15	7	8			1
52	72	38	34		4		90	12	9	3		6	
53	67	41	26		15		91	9	5	4		1	
54	88	43	43		2		92	7	4	3		1	
55	87	54	33		21		93	6	1	5			4
56	89	45	44	 -	1		94	6	3	3			
57	74	41	33		8		95	7	1	6			5
58	79	49	30		19		96	7	1	6			5
59	69	43	26	 -	17		97	3	1	2			1
60	99	56	43		13		98	2	ļ	2		 -	2
61	65	44	21		23	ļ	99	2	1	1			
62	99	59	40		19		100	4	1	8			2
63	87	58	20		29		102	2	1	1			
64	110	76	34		42		103	1	1	 		1	
65	107	59	48		11		104	2	1	1			
66	98	53	45		8	 -	105	1		1			1
67	73	49	24		25		Unknown.	231	124	106	1	18	•••••

EXHIBIT G.—The Relation of the Deaths at Different Periods of Age to Deaths at All Ages, by Months; and for the same Periods of Age, the Relation of the Deaths in each Month to the Deaths in the Year 1874, according to the Returns.

17

6			:)			; !		î		2	200			
		YEAR,						Mon	Момтнв, 1874.	374.					
DEATHS BY AG	Y AGES IN PERIODS OF YEARS.	1874.	Jan.	T.	Mar.	Apr.	May.	June. July.		Aug.	Sept.	Oct.	Nov.	Dec.	Average Month.
All Ages		12,454	83	25	8	1,102	1,071	*	88	1,383	1,517	1,211	8	061,1	1,038
	Numbor.	8,368	133	25	210	82	252	324	188	<u>&</u>	513	812	252	88	8
Under 1	Per Cent. of All Ages	27.04	20.15	20 %	22.85	23.68	22.63	25.87	29.52	37.61	33.82	25, 78	22.93	25.27	27.07
	Per Cent. of Deaths, 1874	100.00	26.	4.51	6.24	7.75	7.48	6.65	8.46	15.50	15.23	9.37	9 8	8.40	88
	Number	5,126	118	***	341	##	374	818	†8 †	166	792	8	817	8	487
Under 5	Per Cent. of All Agos	41.16	32.22	35.67	87.11	37.30	34.92	38.49	44.97	55. 19	52.21	41.70	35, 85	34.82	41.14
	Per Cent. of Deaths, 1874	100.00	4 .13	4 .08	8	8.09	7.30	6.16	8.47	14.94	15.45	9.85	6.77	7.61	88
	Number	202	7	2	9	\$	28	8	23	23	70	8	Q	2	3
5 to 10	Per Cent. of All Ages	4.75	88	8	5.03	4.17	5.51	6.71	¥.04	3,75	85 28	4.95	5.06	4.82	4.83
	Per Cent. of Deaths, 1874	100.00	6.83	7.00	7.7	7.71	9.97	3	6.59	8.78	9.13	10.13	8.28	9.12	8
	Number	88	\$	8	2	28	19	25	7.4	73	88	Ħ	11	1	*
10 to 20.	Per Cent. of All Ages	7.19	7.03	83	9.14	6.90	5.70	3	7.67	5.40	5.41	9.17	7.34	£34	7.13
	Per Cent. of Deaths, 1874	100.00	5.19	2.8	9.48	80.0	88	8.24	8.35	8.47	83.	12.53	8.01	8.01	8.33
	(Number	2,774	167	35	808	8	800	212	92	183	274	935	238	305	28
20 to 50	Per Cent. of All Ages	22.27	23	28.06	22.63	21.60	28.01	21.46	20.73	16.64	18.06	21.31	23.65	26.92	8
	Per Cent. of Deaths, 1874	100.00	8.0	5.00	7.50	8.61	10.81	7.64	7.21	8.83	88.	9.30	8,22	10.89	8.38
	(Number	2,860	22	167	83	8	888	욹	199	513	62	237	360	972	823
50 and over	Per Cent, of All Ages	22.97	24.27	24.85	25.55	27.59	25.23	23.67	20.62	17.43	19.38	21.22	38.38	24.91	93
	Per Cent. of Deaths, 1874	100.00	82.4	5.84	7.90	10.	9.37	7.17	96.9	8.46	10.28	8.09	9.00	9.75	8.83
	(Number	216	2	~	77	8	6	2	2	81	25	8	13	72	18
Unknown Ages	Per Cent. of All Ages	1.73	4.73	1.0	1.62	2.38	78.	1.16	1.97	1.59	1.38	3.6	1.34	2.14	1.73
	Por Cent. of Deaths, 1874.	100.00	14.85	3.24	6.48	12.04	4.17	4.63	8.79	10.19	9.72	9.26	6.02	ուո	8.33

· Unknown month excluded.

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year and in each Month of the Year 1874.

AGES IN	0	YEAR,						Mo	NTIIS,	1874.					
PERIODS OF YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	12,500	655	672	919	1,102	1,071	866	965	1,388	1,517	1211	968	1120	4
	Males	6,663	335	349	500	606	551	471	524	736	802	640	517	606	9
All Ages. {	Females.	5,804	320	319	416	496	518	395	435	651	711	567	448	510]
ŧ	Unk'n	31		4	8		2		6	1	4	4	3	4	
1	Total	3,373	132	152	210	261	252	224	283	522	513	812	222	283	
Under 1	Males	1,907	72	79	115	167	144	130	164	288	282	169	123	166	
	Females.	1,436	60	69	92	94	106	94	116	233	227	139	91	113	
į	Unk'n	30		4	8	-	2		5	1	4	4	3	4	
ſ	Total	5,138	211	239	841	411	874	316	434	766	792	505	847	390	
!	Males	2,828	104	127	189	253	206	173	235	420	428	262	198	227	,
Under 5 	Females.	2,280	107	108	149	158	166	143	194	345	360	239	146	150	
{	Unk'n	· 30		4	3		2		5	1	4	4	3	4	
ſ	Total	594	41	42	46	46	59	50	39	52	54	60	49	54	
to 10	Males	321	24	25	81	20	27	28	24	28	26	87	18	82	
ł	Females.	273	17	17	15	26	82	22	15	24	28	23	31	22	
ſ	Total	359	16	28	85	29	24	29	37	26	37	89	.29	29	
0 to 15	Males	183	7	18	17	14	14	17	19	17	18	19	12	11	
ί	Females.	176	9	10	18	15	10	12	18	9	19	20	17	18	
ſ	Total	530	80	84	49	47	37	44	87	49	4.5	72	42	42	
5 to 20	Males	235	14	14	28	23	14	19	14	21	24	83	18	17	
l	Females.	295	16	20	21	24	23	25	23	28	21	39	29	25	
ſ	Total	618	29	26	53	49	64	47	54	46	57	65	59	69	
0 to 25	Males	273	9	10	23	23	26	19	27	18	21	85	31	81	
•	Females.	345	20	16	30	26	38	28	27	28	36	80	28	38	
1	Total	514	26	26	37	51	59	44	46	41	51	39	46	46	
1	Males	227	10	10	15	19	23	18		14	ŀ		25	27	
•	Females.	287	16	16	22	32	36	26	22	27			21	19	
j	Total	434	32	24	29	26	45	87	85	37	1	1	29	51	
	Males	184	13	7	16	11	19	19	11	12	i		15	22	
•	Females	250	17	17	13	15	27	18	24	25	25		14	25)	
ĺ	Total	440	35	27	34	41	54	26	24	40	38	1	87	42	
5 to 40}		189	16	13	11	20	27	10	7	19	20		13	13	
_	Females.	251	19	14	23	21	27	16	17	21	18	l	24	29	
1	Total	390	25	23	29	88	38	31	13	38	47	85	31	41	
0 to 45}	Males	202	18	13	17	15	18	18	5	16	81	15	15	20	1

TABLE V.—Continued.—Deaths by Periods of Age, by Sex, by Months.

AGES IN	l l	YEAR,						Mon	THS, 18	874.					
PERIODS OF YEARS	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June,	July.	Aug.	Sept	Oct.	Nov.	Dec.	Unk.
(Total	384	20	29	26	34	40	27	28	29	36	35	26	53	1
45 to 50	Males	224	11	15	17	18	24	14	17	18	18	25	17	29	1
į	Females	160	9	14	9	16	16	13	11	11	18	10	9	24	
ſ	Total	397	24	27	28	50	33	30	25	39	39	32	32	37	1 2
50 to 55	Males	231	11	19	19	25	.15	19	18	24	21	16	23	18	
Į.	Females	166	13	8	9	25	18	11	7	15	15	16	9	19	
ſ	Total	398	24	18	22	60	30	25	25	37	29	39	40	48	
55 to 60	Males	232	18	10	11	38	16	12	16	19	14	27	20	30	
Į	Females.	166	6	s	11	22	14	13	9	18	15	12	20	18	
(Total	460	27	29	50	40	41	28	34	40	43	40	40	45	1
60 to 65	Males	293	19	20	36	23	25	18	23	23	22	27	25	29	
į	Females	167	8	9	14	17	16	10	11	17	21	13	15	16	
(Total	454	23	28	36	41	52	35	28	27	53	44	48	39	
65 to 70	Males	272	12	18	22	22	34	21	19	17	29	27	26	25	
- (Females.	182	11	10	14	19	18	14	9	10	24	17	22	14	
(Total	434	23	23	39	48	37	29	28	40	43	37	41	44	1
70 to 75	Males	252	11	11	20	20	17	19	20	24	25	21	25	29	
1	Females.	182	12	12	19	19	20	10	8	16	18	16	16	15	1 3
(Total	318	16	20	20	33	40	23	31	22	34	26	19	33	10
75 to 80	Males	191	10	7	15	17	25	17	20	17	17	16	12	17	
(Females.	127	6	13	5	16	15	6	11	5	17	10	7	16	
1	Total	232	11	13	21	16	20	18	15	20	33	23	26	16	
80 to 85	Males	121	6	5	5	10	11	13	7	12	22	5	15	10	
ł	Females.	111	5	8	16	6	9	5	8	8	11	18	11	6	
ſ	Total	104	8	7	3	10	13	7	9	11	10	13	6	7	
85 to 90	Males	53	4	3	1	7	6	3	4	5	7	7	3	3	
1	Females.	51	4	4	2	3	7	4	5	6	3	6	3	4	
1	Total	40	1	1	2	6	1	8	3	2	4	1	6	5	
90 to 95	Males	99	1	1	1	3		5	2		1	1	3	4	
- (Females.	18			1	3	1	3	1	2	3		3	1	
f	Total	21	1	1	4			1		3	4	2	2	3	
95 to 100	Males	4						1			2	1			
1	Females.	17	1	1	4					3	2	1	9	3	
ſ	Total	10	1		1		1	1	1	1	2			2	
100 & Over)		1					1		1				1	
	Females.	6			1		1		1		2			1	
ſ	Total	231	31	7	14	26	9	10	19	22	21	20	13	24	10
	Males	124	14	3	6	16	5	7	12	11	11	11	8	11	9
Unk'n	Females.	106	17		8	10	4	3	6	11	10	9	5	13	6
	Unk'n	1							1						

TABLE VI.—Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1874 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.

AGES	1	YEAR,						Mon	r HS, 1 8	74.					
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	1,377	71	78	92	118	132	107	113	157	139	125	97	145	3
	Males	779	33	41	51	75	78	71	68	83	68	69	52	89	1
Under 1-12 a	Females.	570	38	33	38	43	52	36	40	73	68	52	42	53	2
1	Únk'n	28		4	3	*****	2	*****	5	1	3	4	3	3	
1	Total	318	17	11	19	25	26	15	29	45	55	34	26	16	
1-12	Males	184	11	5	9	15	15	7	19	23	32	24	15	7	
	Females.	134	6	6	10	10	11	8	10	20	23	10	11	9	
- 1	Total	293	8	11	20	20	16	24	24	49	45	31	21	24	
2-12	Males	163	6	6	12	14	, 8	10	32	31	23	14	12	15	
1	Females.	130	2	5	8	6	8	14	12	18	22	17	9	9	
	Total	226	6	10	12	22	11	18	15	48	36	17	15	16	
3-12	Males	138	3	7	7	16	8	8	11	29	22	9	9	9	
1	Females.	87	3	3	5	6	3	10	4	19	14	8	6	6	
	Unk'n	1												1	
1	Total	188	5	6	11	6	12	15	18	34	39	17	11	13	1
4-12	Males	110	3	6	6	4	5	11	9	19	20	11	8	7	1
	Females.	78	2		5	2	7	4	9	15	19	6	3	6	
1	Total	161	4	3	9	9	7	9	15	40	31	11	12	11	
5-12	Males	85	1	3	6	5	2	5	7	20	16	6	6	8	
1	Females.	76	3		3	4	5	4	8	20	15	5	6	3	
	Total	155	4	4	6	10	8	8	15	35	28	13	8	16	
6-12	Males	90	3	2	4	6	4	3	10	20	16	7	6	9	
	Females.	65	1	2	2	4	4	5	5	15	12	6	2	7	
	Total	141	5	3	11	12	8	6	16	19	32	12	6	11	
7-12	Males	87	4		4	7	6	5	9	12	20	7	5	8	
	Females.	54	1	3	7	5	2	1	7	7	12	5	1	3	
	Total	124	1	3	7	10	4	8	4	19	30	19	6	13	
8-12	Males	72		1	4	8	3	5	2	11	20	7	4	7	
	Females.	52	1	2	3	2	1	3	2	8	10	12	2	6	
	Total	145	4	9	7	13	9	7	20	23	26	9	10	7	1
	Males	79	3	4	5	9	4	3	8	10	18	5	7	2	1
9-12	Females.	65	1	5	9	4	5	4	12	13	7	4	3	5	
	Unk'n	1									1				
	Total	126	2	5	10	10	10	5	6	29	23	12	7	7	
10-12	Males	63	2	1	4	6	6	2	5	15	10	5	3	4	
	Females.	1 5		4	6	4	.4	3		14	13		1	3	

a Still-births included. See table of specified causes of deaths.

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mon	гнз, 18	74.					
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
(Total	119	5	9	6	6	9	2	10	24	29	12	3	4	
11-19	Males	57	3	3	3	2	5		4	13	17	5	1	1	
1	Females.	62	2	6	3	4	4	2	6	11	12	7	2	3	
1	Total	872	33	30	49	72	44	44	84	143	165	102	52	51	
1	Males	463	15	19	26	44	24	16	41	83	88	51	27	27	
1	Females.	409	18	11	23	28	20	28	43	60	77	51	25	24	1
1	Total	402	14	23	37	27	34	22	37	52	63	38	33	20	
3	Males	214	4	13	21	15	19	10	17	25	35	20	20	14	
	Females.	188	10	10	16	12	15	12	20	27	28	18	13	6	
1	Total	280	16	19	31	27	25	15	16	29	31	28	24	17	
8	Males	132	6	7	18	13	10	10	8	13	11	15	12	9	
- 6	Females.	148	10	12	13	14	15	5	8	16	20	13	12	8	
1	Total	211	16	15	14	24	19	11	12	20	20	25	16	19	
4	Males	112	7	9	9	14	9	7	5	11	12	7	11	11	
U	Females.	99	9	6	5	10	10	4	7	9	8	18	5	8	
1	Total	168	9	11	11	15	16	13	12	17	18	14	16	16	
5	Males	84	5	8	5	8	9	6	8	4	6	10	6	9	
	Females.	84	4	3	6	7	7	7	4	13	12	4	10	7	
1	Total	119	3	8	10	14	10	13	6	10	8	10	14	12	
6	Males	65	8	3	6	6	3	8	3	6	6	6	7	8	
	Females.	54		5	4	8	7	5	3	4	2	4	7	4	
1	Total	113	15	8	7	3	18	11	5	10	11	10	6	9	
7	Males	63	7	7	5	1	9	7	2	8	3	7	1	6	
1	Females.	50	8	1	2	2	9	4	3	2	8	3	5	3	
1	Total	105	5	7	7	8	9	7	12	n	9	15	6	9	
8	Males	61	3	4	6	3	3	5	10	7	7	8	1	4	
	Females.	44	2	3	1	5	6	2	2	4	2	7	5	5	
1	Total	89	9	8	11	6	6	6	4	4	8	11	7	8	
9	Males	48	6	3	9	2	3	2	1	8	4	6	3	5	
	Females.	41	3	5	2	4	3	4	3	1	4	6	4	3	
(Total	81	6	5	9	6	5	8	7	8	6	7	6	7	
10	Males	44	2	3	6	2	4	4		6	4	4	2	3	
	Females.	37	4	2	3	4	1	4	3	2	9	8	4	4	
1	Total	67	3	7	5	6	7	3	5	8	7	9		8	
11	Males	34	2	4			1 2		1			1	1		
	Females.										3			1	1
1	Total		3			5	4	6						1	
12	Males	26	1		1	3						100	1		
	Females.				4	2			1	3			100	2	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES]	YEAR,						Mon'	гнв, 18	374.					
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
ſ	Total	65	1	5	6	7	3	5	11	6	7	0	6	5	ļ
18	Males	31		2	8	2	2	4	6	2	2	2	4	2	ļ
į	Females.	34	1	3	3	5	1	1	5	4	5	1	2	3	ļ
(Total	89	3	6	10	5	5	7	11	8	11	11	10	7	
إ	Males	48	2	5	5	4	8	5	5	3	4	6	4	2	 .
l	Females.	41	1	1	5	1	2	2	. 6		7	5	6	5	 .
(Total	68	4	7	5	4	3	7	7	8	7	7	4	5	
15	Males	37	3	4	8	1	2	3	4	5	3	4	2	3	
į	Females.	31	1	3	2	3	1	4	8	3	4	3	2	2	
{	Total	111	2	10	7	11	9	12	6	9	8	15	10	10	
16	Males	48	1	6	2	7	3	4	3	4	3	7	8	4	
į	Females.	63	1	4	5	4	6	8	8	5	5	8	7	6	
ſ	Total	111	8	5	12	8	8	9	7	10	12	19	5	8	
17{	Males	52	3	1	10	4	3	4	2	5	10	6	1	3	
t	Females	59	5	1	2	4	5	5	5	5	2	13	4	5	
ſ	Total	108	9	5	10	11	7	7	7	11	5	14	12	10	
ı8	Males	41	4	1	5	5	2	3	2	4	2	5	4	4	
l	Females.	67	5	4	5	в	5	4	5	7	3	9	8	6	
(Total	132	7	7	15	13	10	9	10	31	13	17	11	9	
19	Males	57	3	2	8	6	4	5	8	3	6	11	3	3	
(Females.	75	4	5	7	7	6	4	7	8	7	6	8	6	
(Total	114	4	6	13	11	9	6	12	8	14	13	6	12	
x 0	Males	55	3	3	5	5	2	2	8	3	4	10	4	6	
t	Females.	59	1	3	8	6	7	4	4	5	10	3	2	6	
(Total	121	1	5	13	9	15	7	9	7	13	10	11	21	
n	Males	46		2	6	2	8	2	8	4	4	4	3	8	
{	Females	75	1	3	7	7	7	. 5	6	3	9	6	8	13	
(Total	122	5	6	6	10	16	10	8	13	9	18	12	9	
19	Males	67	9	3	3	6	7	8	δ	7	6	9	10	6	
· · · · · · · · · · · · · · · · · · ·	Females	55	3	3	3	4	9	7	3	6	3	9	2	3	
ſ	Total	115	10	5	7	7	y	12	13	6	8	16	10	12	
3	Males	43	2	1	2	4	8	5	8		3	8	3	4	
{	Females	72	8	4	5	8	6	7	5	6	5	8	7	8	
1	Total	146	9	4	14	12	15	12	12	12	13	8	20	15	••••
4	Males	62	2	1	7	6	6	7	8	4	4	4	11	-	
l	Females.	84	7	3	7	6	9	٨	9	8	9	4	9	8	
ſ	Total	125	6	3	14	14	12	11	16	9	11	10	10	9	
s	Males	62	3	2	7	8	6	2	٥	3	7	8	0	6	
1	Females.	63	8	1	7	6	6	9	7	6	4	7	4	3	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						-	уех, гнв, 18						
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	93	8	8	5	4	9	10	8	6	7	7	11	13	2
26	Males	39	. 2		1		8	4	4	3	3	3	5	9	9
l	Females	54	6	8	4	4	6	6	4	3	4	4	6	4	
· r	Total	106	3	5	6	10	19	9	10	8	10	7	9	10	
27	Males	44	1	2	4	5	:	4	4	2	9	4	6	8	
ł	Females.	62	2	3	2	5	12	5	6	6	8	3	3	7	
ſ	Total	111	6	8	7	11	10	11	11	11	14	5	8	y	
28	Males	50	. 3	2		4	2	8	7	4	6	3	4	7	
. {	Females.	61	8	6	7	7	8	8	4	7	8	2	4	2	
ſ	Total	79	ខ	7	5	12	9	. 8	1	7	9	10	8	5	
2 0	Males	32	1	4	8	2	5			2	4	5	4	2	
· · · · · · · · · · · · · · · · · · ·	Females.	47	2	3	2	10	4	8	1	5		5	4	3	
ſ	Total	96	10	5	9	5	8	6	5	9	11	10	8	10	
80	Males	39	6	8	5	2	2	5		3	3	4	4	2	
l	Females.	57	4	2	4	3	6	1	5	6	8	6	4	8	
ſ	Total	83	6	6	3	6	8	5	6	8	10	7	1 :	12	
31	Males	39	2	1	1	1	4	3	2	4	5	ì	í	9	
· · · · · · · · · · · · · · · · · · ·	Females.	44	4	5	2	5	4	2	4	4	5	İ	2	3	
	Total	94	4	2	5	3	12	13	6	8	11	i		13	
1	Malos	44	2	1	4	1	6	5	1	4	5	5	1	5	
i	Females.	50	2	1	1	2	6	8	4	4	6	5		8	•••••
	Total	86	4	4	11	7	y	8	11	7		7	I	9	1
1	Males	26	1		5	2	1	8	4	1	4	1	1	8	•
i i	Females.	60	3	4	G	5	8		7	6	•	6	3	6	1
	Total	75	8	7	1	δ	8	5		5	9	9	i .	7	1
i	Males	36	4	2	1	5	5	3	3		3	i	!	3	
i	Females.	39	4	5			3	2	4	5	6	i	1	1	
	Total	112	12	4	5	13	13	6	6	10	10	8	1	16	
i	Males	56	4	2	3	7	6	3	3	5	7	!	1	7	
i	Females.	57	8	2	9	6	7	l	3	δ			!	9	
	Total	78	5	4	8	7	12	5	5	10	1			9	
i	Males	27	1	2	1	2	7	9		5		1	l	3	•••••
i	Females.	51	4	2	7	5	5	3	5	5	1		l	6	
	Total	85	8		3	9	1		ر ا	11	ŀ	l	l	[•••••
1	Males	37	l		1	3		i	•	6		1	1	1	
i	Females.	48	l	1		6	1			1	į	i	1	1	
	Total	85	ĺ			l	1	1	I	6	l	1	1	ì	
ì	Males	39	1	l i		ļ	ı	l	!	1	1	l	1	ĺ	
i	Females	43		1		i		ì		i	l		i	i	
,	remaies.	*,	٠,	1	•	2	2	1	4	4	6	, 4	4	7	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

			ı					May		7.					
AGES IN	SEX.	YEAR,						MON	гня, 18	7/±.					
YEARS.	SEA.	1874.	Jan.	Feb.	Mar.	April,	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
				-									-	-	
i	Total	80	4	9	5	5	9	6	4	3	9	8	11	6	1
39	Males	81	3	5	1	3	4	1	1	1	4	2	8	2	1
	Females.	49	1	4	4	2	5	5	3	2	5	6	8	4	
•	Total	94	5	5	7	7	8	8	3	12	9	12	8	9	1
	Malcs	53	4	3	5	3	5	4	1	6	7	6	4	4	1
	Females.	41	1	2	2	4	8	4	2	6	2	6	4	5	
	Total	73	2	4	6	10	6	8	1	8	8	10	5	10	•••••
41	Males	24	1	2	3	2	1	2		1	4	8	2	8	
İ	Females.	40	1	2	3	8	5	1	1	7	4	7	8	7	
	Total	75	6	5	. 4	7	11	8	1	8	9	6	7	6	
42	Males	39	4	2	2	4	. 5	5		. 2	7	8	8	2	
İ	Females.	36	2	8	2	3	6	8	1	8	2	8	4	4	•••••
	Total	72	5	5	3	8	8	7	3	10	9	4	6	4	
43	Males	41	4	3	1	4	5	5	1	5	4	1	4	4	
	Females.	31	1	2	2	4	8	2	2	5	5	8	2		
	Total	76	7	4	9	6	5	5	5	3	12	8	5	12	
44	Males	45	5	8	6	2	2	2	3	2	9	2	2	7	
1	Females.	31	2	1	3	4	8	3	2	1	3	1	8	5	
	Total	90	6	10	3	7	10	6	4	8	6	9	9	11	1
45	Males	59	4	5	3	4	9	3	2	4	8	7	5	9	1
	Females.	31	2	5		3	1	3	2	4	3	2	4	2	
	Total	73	4	4	9	6	3	6	6	5	7	6	4	13	
46	Males	51	2	2	6	5	3	4	5	5	5	5	2	7	
	Females.	22	2	2	3	1		2	1		2	1	2	6	
	Total	74	8	3	6	9	9	5	5	8	11	9	4	7	•••••
47	Males	41	 .	2	8	4	4	4	8	2	7	8	2	2	
	Females.	33	8	1	3	5	5	1	2	1	4	1	2	5	•
	Total	80	4	8	5	6	9	4	5	10	9	6	3	11	
48	Males	88	3	4	2	2	5	••••	2	4	2	4	8	7	
	i l Females.	42	1	4	3	4	4	4	8	6	7	2		4	
	Total	67	8	4	3	6	9	6	8	3	3	5	6	11	
49	 Males	 35	2	2	3	3	 3	3	5	3	1	1	5	4	
	i l Females.	32	1	2		3	6	3	3		2	4	1	7	••••
	Total	115	18	10	9	14	11	8	6	8	11	11	7	9	1
50	Males	71	6	8	5	6	5	3	5	6	8	7	5	7	
	Females.	44	7	2	4	8	6	2		2	8		2	2	1
	Total	55	<u> </u>	3	4	و	2	10	2	5	5	8	6	6	
51	Males	36		3	3	5	1	6	1	4	4	8	4	9	
	Females.		l		1	4	ı		1	1	1		2		*****
	, 2 J.ua105.	1 .,,		1			_ ^		<u> </u>	1 1	•	l	<u> </u>	<u> </u>	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mon	THS, 1	874.					
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	72	2	4	7	10	5	8	6	10	5	4	8	8	
2	Males	3 8		1	5	4	8	2	5	8	4		6	5	
· · · · · · · · · · · · · · · · · · ·	Females.	84	2	8	2	6	2	1	1	7	1	4	2	8	
	Total	67	5	4	6	6	7	5	9	5	7	8	7	8	•
3	Males	41	4	2	5	8	2	4	5	8	8	2	6	2	••••
·	Females.	26	1	2	1	8	5	1	4	2	4	1	1	1	
(Total	88	4	6	2	11	8	7	2	11	11	11	4	11	
4	Males	45	1	5	1	7	4	4	2	8	5	4	2	2	••••
{	Females.	43	8	1	1	4	4	8	•••••	8	6	7	2	9	
ſ	Total	87	8	3	5	16	8	8	7	8	9	9	10	6	
ō	Males	54	8	2	2	8	6	1	5	5	6	6	8	2	
(Females.	38		1	8	8	2	2	2	8	8	8	2	4	••••
ſ	Total	89	4	2	9	16	5	11	2	10	4	7	7	11	
и	Males	45	2		4	14	1	5		6	1	4	1	6	
l	Females.	44	2	2	5	2	4	6	2	4	8	8	6	5	
ſ	Total	74	7	8	2	14	7	4	6	8	6	7	5	5	
7{	Males	41	6	1	1	8	8	2	4	8	2	5	2	4	
l	Females.	88	1	2	1	6	4	2	2	5	4	2	8	1	••••
(Total	79	5	5	4	9	8	1	4	5	6	10	7	20	
8	Males	49	4	2	8	6	2		8	1	8	7	4	14	
į	Females.	30	1	8	1	8	1	1	1	4	8	8	8	6	
ſ	Total	69	5	5	2	5	7	6	6	6	4	6	11	6	
ø{	Males	48	8	5	1	2	4	4	4	4	2	5	5	4	
l	Females.	26	2		1	3	8	2	2	2	2	1	6	2	
ſ	Total	99	8	4	8	5	6	8	7	7	12	12	11	11	
0	Males	56	7	8	4	8	8	4	4	.4	5	7	6	6	
Į	Females.	43	1	1	4	2	8	4	8	8	7	5	5	5	
(Total	65	5	4	7	7	8	7	1	8	9	8	4	6	
i 1 -{	Males	44	8	8	6	2	8	4	1	8	5	6	8	4	
ł	Females.	21	2	1	1	5		8	·		4	2	1	2	
ſ	Total	99	5	7	13	8	7	6	7	12	7	7	6	14	
2	Males	59	2	4	11	6	5	5	4	6	2	5	1	8	
l	Females.	40	8	8	2	2	2	1	8	6	5	2	5	6	
(Total	87	6	8	7	11	10	4	10			8	9	5	
3∤	Males	56	5	8	8	6	4	1	l	7	4	8	7	5	
	Females.	29	1		2	5	6	ł		l -			2		 -
(Total	110	8		15	9	15	8	9	1 .		10	10	9	
	Males	76	2	7	10	6	10	3	8	8		ı	8	6	
į	Females.	84	1	4	5	8	5		1	4	2	4	2	8	 -

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mon	r118, 18	74.					
IN YEARS.	SEX.		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	107		11	6	11	11	10	9	4	11	12	12	5	
65	Males	59		10	5	5	5	7	6	3	5	5	6	2	
	Females.	48	5	1	1	6	6	3	3	1	6	7	6	3	
	Total	98	4	3	5	7	7	10	6	6	12	12	19	7	
66	Males	53	2	1	3	1	4	4	3	3	9	9	8	6	
	Females.	45	2	2	2	6	3	6	3	8	8	8	11	1	
(Total	73	3	7	8	8	15	6	5	1	7	5	6	10	
67	Males	49	. 5	4	1	4	9	5	4	1	5	3	5	6	
	Females.	24	1	3	2	1	6	1	1		2	2	1	4	
	Total	82	7	4	7	8	9	5	5	8	8	6	10	5	
68	Males	57	5	3	6	5	7	2	8	5	4	6	7	4	
	Females.	25	2	1	1	3	2	3	2	3	4		3	1	
!	Total	94	4	8	15	10	10	4	3	8	15	9	1	12	
69	Males	54	3		7	7	9	3	3	5	6	4		7	
	Females.	40	1	3	8	8	1	1		3	9	5	1	5	
	Total	91	5	7	8	8	15	9	2	6	5	4	8	13	1
70	Males	50	1	2	5	6	7	8		3	3	2	4	8	1
į	Females.	41	4	5	3	2	8	1	2	3	2	2	4	5	
	Total	68	4	2	6	9	8	5	9	6	4	10	4	6	
71	Males	42	3		4	6	1	3	7	3	2	6	2	5	
1	Females.	26	1	2	2	3	2	2	2	3	2	4	2	1	
	Total	8-3	5	3	9	11	10	7	2	8	11	5	10	11	
79	Males	55	3	3	4	5	5	4	1	7	9	1	6	7	
,	Females.	37	2		5	6	5	3	1	1	2	4	4	4	
1	Total	76	2	3	7	9	4		4	9	9	9	12	8	
	Males	49		2	5	7	1		4	6	4	7	7	6	
•	Females.	27		1 1	2	2	3		 -	3	5	2	5	2	 -
	Total	107	l	8	9	11	5	8	11	11	14	9	7	6	1
74	Males	56	4	4	2	5	3	4	8	5	7	5	6	3	
•	Females.	51		1 "	7	6		_	3	6		4	1	3	1
	Total	77		1	2	9	7	5	9	3	11	6	6	10	ļ
75	Males	45	_	1		5	4	4	7	3	6	4	3	5	
([Females.	32		3	2	4	8	1	2		5	2	3	5	ļ
_	Total	63	l		7	l	1	1	i	1	l	ł	4	6	
78	Males	41	l	1 1		•		1	l		l	1	3	ĺ	
(Females	22	ı			ı		İ	2		ı	i	l	i	
	Total	76	1			l .		ł	1	ł	l	1	ı	1	1
77	Males	44	1	1 1	4	2	I	1	ı	6	ł .	1	1	i i	1
((Females	32	2	5		4	3	3] 1	8	4	1	2	4	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES	1	YEAR,						Mon	rii8, 18	374.					
IN YEARS.	SEX.	1874.	Jan.	Feb.	Mar.	April,	May.	June.	July.	Aug	Sept.	Oct.	Nov.	Dec.	Unk
	Total	53	2	3	4	6	9	1	5	1	5	8	4	5	
8	Males	29	2	1	3	4	4	1	2	1	1	4	3	3	
	Females.	24		2	1	2	5		3		4	4	1	2	
!	Total	49	3		3	6	6	5	4	7	7	3	1	4	
9	Males	32	2		3	2	5	3	1	6	5	1	1	3	ļ
	Females.	17	1			4	1	2	8	1	2	2	***	1	
1	Total	56	2		4	4	4	4	4	7	9	8	7	3	ļ
0	Males	31	1		1	3	3	2	8	5	6	2	2	3	ļ .
	Females.	25	1		3	1	1	2	1	2	3	6	5		ļ
	Total	34	4	2	3	1	8	8	2	2	6	3	2	3	
31	Males	22	3	1	1		8	2	1	1	5	2	2	1	
1	Females.	12	1	1	2	1		1	1	1	1	1		2	- -
	Total	44		6	2	5	2	2	3	5	5	4	7	3	ļ
82	Males	20		2		1	2	2	1	3	- 4		4	1	
	Females.	24		4	2	4			2	2	1	4	3	2	
	Total	41	1	3	- 4	1	6	2	4	2	6	3	6	3	
3	Males	21		2	2	1	2	2	1	1	3	1	3	3	ļ
	Females.	20	1	1	2		4		8	1	3	2	3		
	Total	57	4	2	8	5	5	7	2	4	7	5	4	4	
4	Males	27	2		1	5	1	5	1	2	4		4	2	
	Females.	30	2	2	7		4	2	1	2	3	5		2	ļ
	Total	21		2		6	1	2	8	3	2		1	1	ļ,
5	Males	11		1		4		2	<u></u>	1	2		1		
	Females.	10		1		2	1		3	2				1	ļ
	Total	22	1	1	1	2	2		2	3	1	3	.3	3	
6	Males	13	1	1		2	1	<u></u> -	2	1	1	2		2	
	Females.	9			1		1	 -		2		1	3	1	ļ
	Total	27	2	3		1	7	1	2	3	2	3	1	2	
37	Males	14	1	1			8	 .	1	2	1	3	1	1	ļ
	Females.	13	1	2		1	4	1	1	1	1			1	
	Total	19	2		2	 -	3	3	1	2	2	4			ļ
18	Males	8	1		1	 .	2	 	1	1	1	1			ļ
	remales.	1)	1		1	 -	1	3		1	1	3		***	
	(Total	15	3	1		1		1	1		3	3	1	1	
D	Males	7	1			1	 	1	 		2	1	1		ļ
	Females.	8	2	1		 .	 		1		1	2		1	ļ
	(Total	12		1	1	3		1	1	1		1	1	2	-
0	Males	9	****	1	1	2		,	1			1	1	1	ļ
	 Females	3				1				1				1	l

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,	<u> </u>					Mon	rns, 18	74.					
IN YEARS.	SEX.	1874.		Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
(Total	9	1		1	2		3			1	****	1		
91	Males	5	1			1		2					1		
	Females.	4			1	1		1			1				
1	Total	7				1	1	1	1				1	2	
92	Males	4						1	1					2	
1	Females.	3				1	1						1		
1	Total	6						3	1		1		1		
93	Males	1						1							
	Females.	5						2	1		1		1		
	Total	6								1	2		2	1	
94	Males	3			*****						1		1	1	
	Females.	3								1	1		1		
	Total	7								1	3	1	1	1	
95	Males	1									1				
	Females.	6								1	2	1	1	1	
	Total	7	1		2					1		1	1	1	
96	Males	1										1			
	Females.	6	1		2					1			1	1	
	Total	3		1	1						1			1	
97	Males	1									1				
	Females.	2		1	1										
98	.Females.	2			1									1	
	Total	2						1		1					
99	Males	1						1							
	Females.	. 1	ļ							1					
	Total	. 4	1		1						1			1	
100	Males	1	1										1		
	Females.	. 2			1						1			1	
	Total						1							1	
102	Males	1												1	
	Females						1								
103	.Males	. 3					100			3					
	Total	. 1						1			1				
104	Males							1							
	Females	. 3									1				
105	Females														
	[Total	23	3	1 7	14	26	9	10	15	29	21	20	18	24	. 1
Table	Males	12	1	4 8	6	16		1	15	11	11	1	1 8	11	1
Unk'n	Females	100	1	1 4	8	10			3	11	10	1	1	13	1
	Unk'n														

INFANT MORTALITY.

The first lines in Exhibits F and G, and in Tables IV., V., and VI., on preceding pages, supply interesting data on this important subject, as do also Exhibits 2, 3, 4, and 5, and Table VIII., following this.

In the compilation of still-births for each of the years previous to 1874, those in the returns of births were compiled with the other tabulation for births, and those in the returns of deaths were compiled with the other tabulation for deaths; and the number in the returns for births was different from that in the returns of deaths, in each year; but for this compilation, for 1874, the still-births in the returns of births have been compared with those in the returns of deaths, and in the tables on this subject in that part relating to births and in that relating to deaths, the still-births correspond by number and by sex, as may be seen by comparing Table XV., of births, page 62, with Exhibit 2, below. This has increased the number of still-births compiled for 1874, because some are returned among the deaths that were not returned among the births, and vice versa, so that in any comparison of the different years for which data are shown in Exhibit 2, these facts should be borne in mind. The showing for the year 1874, however, is much more reliable, as presenting the number of still-births which were returned for 1874, in the combined returns of births and deaths.

According to the returns, in 1874, 3.71 per cent. of the deaths and 1.49 per cent. of the births in Michigan were of still-born children.

EXHIBIT 2.—The Relation of Still-births to all Persons returned as having died in Michigan during the several Years 1868 to 1874, inclusive, according to the Returns of Deaths, (for 1874 corrected by means of the Returns of Births).

	То	TAL DE	ATHS A	ND STIL	L-BIRTH	s.—Yea	RS.
	1868.	1869.	1870.	1871.	1872.	1873.	1874.
Total Number of Deaths	6,326	9,145	10,766	9,728	13,871	14,258	12,500
Number of Still-births	- 46	a 129	a 226	- 268	a 204	■ 274	464
Per Cent. of Still-births to Total Deaths	.73	1.41	2.10	2.75	1.53	1.22	3.71

[.] As per returns of deaths.

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1874;
Distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were
Born, and whether Born in the Year of Death or in the Previous Year.

	ED US.	Total.	133	148	207	261	250	524	250	521	609	308	219	279
	ALL AGED UNDER ONE YEAR	Ser	7.2	6.8	512	167	144	130	164	888	282	150	128	166
NTES.	ORN DE	Total.	61	83	23	16	55	36	26	98	11	8	89	
DEATHS BY MONTHS.	OF THOSE BORN IN PRESTOCK YEAR.	Sex.	88	88	85	84	88	128	28	33	3%	140	-61	
DEAT	-	100	-	1	1 -	Lie	1 10	1	181	1	li and	1 - 2	La	1 -
	BORN IN	Total.	12	52	128	185	195	188	162	426	432	284	216	979
	OF THOSE BORN IN YEAR OF DEATH.	Ser.	88	39 68	228	120	114 81	112	136	239 187	237 195	159	127 89	166
#221			1					4	181				_	
Prev Death	.Tas							_	ISI					_
Born I Year	Total			10	11	15	26	e5	88	53	19	125	114	186
Number Born in each Month of Year Previl- ous to Year of Death.	-	Sex.		90 64	6.50	1-00	100	13	212	82	198	223	95	E
- S	=		00 01	20.00	00 00	04-44	10.4	104	40	22	22	101-	-01	7
TOOL	9	2	01 1		40	64	94	64 65	97	24	22	-10	20-4	41
E 13	0	5	85-	410	10.01	04	40	20.4	00 gi	13	18	104	P-00	63.4
H AG	o	5	;=	- C1	410	00 28	00 H	10 00	0101	28	80	10-01	404	-
EAC	-	:	4-	100	41-	200	600	101	2.5	150	82	1-10	101	000
(ED A)	u	5	100	01 01	401	64	**	60.10	0.0	22	921	P-9	10 00	61
AT D		5	H 80	60 !	@ 00	04	0110	04	1-80	88	12	90	99	000
EN TI	4		80 GB	9	910	401	-10	==	0.0	129	128	= 9	00 00	-
IIIDB		5	00 00	-00	1-10	16	00 00	108	==	82	813	00.00	0.0	6
OF CI		;	904	00	함호	19	00 00	120	22	18	23 23	42	210	190
NUMBER OF CHILDREN THAT DIED AT EACH AGE IN MONTHS.	-		119	iQ (D)	60	200	22	1-00	62	នន	2,23	20	22	-
Nu	7	-	88	±33	28	53	83	128	899	288	22	83	83	8
EACH MONTH DEATH.	No. of	Sex.	127	148	119	165	130	169	141	35	113	82	62	8
R OF DEATH.	24		Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males
NUMBER BORN IN OF YEAR OF	Total		553	257	239	280	986	266	182	270	206	171	110	142
NUM	-	Хе						7	181					
Months in	and Deaths	Occurred.	January	February	March	April	Мау	Jane	July	August	September	October	November	December

					8,338
				1,434	
			625		
		25.52 25.52			
ī	9,713				
1,152					
			-		
II	1		625		
		282	1		
-100	4	200	112	55	119
	2	23	10	22	126
123	98	23	111	23	143
8	88	55 23	26	5.53	15
38	80	88	19	52	=
4	115	8122	40	88	156
61	139	112	80	88	191
3	129	9	84	100	187
16	197	22	88	85.5	255
183	274	511-	19	253	293
33	301	= 9	11	188	318
268	1346	111		778	1346
1,152	2,713		625		3,338
Females.	Total	Males	Total	Males	Total
	2,713				
71	st	.878.	er.	der	-
Of those Born in	Year of Death.	Of these Bern in	Previous Year.	All Aged Un	Опе Хеаг

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EXHIBIT 3.—Of the Children Born in 1873, according to the Returns, the Number that Died during the Year 1873; the Number that Died during the Year 1874, under One Year of Age; the Total Number that Died under One Year of Age;

and Per Cent. of Decedents aged under One Year to the Children Born in 1873.	ecedents aged under	pun pa	er One	Year	to the	One Year to the Children Born in 1873.	Born	in 1,8	73.						(26-
		СЯІГ	CHILDREN BORN IN 1873.	ORN IN	1878.		M	MALES BORN IN 1873.	BN IN 16	73.		FEM	FEMALES BORN IN 1873.	ORN IN	1873.
MONTHS OF BIRTHS.	Births in 1873, as Beturned.	Died during the Year 1873.	Died Aged under 1 Year during the Year 1874.	Med Aged under L	Per Cent. of Destins under 1, to	Births of Males in 1873, as Be-turned.	Died during the Year 1873.	Died Aged under 1 Year during the Year 1874.	Died Aged under L	Per Cent. of Deaths under 1, to	Births of Females in 1873, as Re- turned.	Died during the Year 1873.	Died Aged under 1 Year during the Year 1874.	Died Aged under 1.	Per Cent. of Deaths under 1, to to Births.
Total	* 34,538	2,709	8	3,334	9.68	17,880	1,513	843	1,856	10.38	16,593	1,196	283	1,478	8.91
January	2,112	188		15	13.30	1,081	156		351	14.43	1,029	125		125	12.15
February	2,240	183	10	88	12.73	1,168	158	∞	191	13.78	1,074	123	67	195	11.64
March	2,847	811	=	33	11.81	1,469	172	**	11	12.05	1,369	83	9	145	10.59
April	2,711	88	23	쭗	11.18	1,400	157	2	181	11.71	1,304	181	80	139	10.66
May	267,8	241	R	2967	95.56	1,448	138	2	88	9.53	1,340	113	91	81	9.63
Jane	2,599	ន្ត	z	123	88.	1,316	23	25	14	10.94	1,278	901	22	113	8.84
July	2,915	248	8	288	28.83	1,633	345	ន	191	10.89	1,876	103	11	130	8.73
August	8,849	122	3	7/3	8.30	1,746	113	ង	8	7.80	1,592	308	28	136	8.54
September	8,436	202	19	23	7.88	1,738	101	#	149	7.99	1,649	201	83	128	7.78
October	3,165	93	Ħ	717	8.66	1,603	87	73	<u>85</u>	9.92	1,561	8	æ	115	7.37
November.	8,017	133	711	726	8.19	1,571	18	8	151	19.6	1,440	Ş	19	8	6.67
December	3,351	130	136	8	7.94	1,767	8	11	85	9.00	1,581	\$	88	107	0.77
		•	•	•	•			•	•	•		-	_		

* Excluding 70 in Unknown month, -28 Males, 39 Females, and 3 unknown sex.

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Exhibit 3 shows, by months, of the number of children born in 1873 the number who died during the year 1873, the number who died in 1874 aged under one year, and the number and per cent. who died aged under one year. The largest per cent. of children born in 1873 who died aged under one year to the total number of births returned as having occurred in 1873 was in January. Of the children born in the first four months of the year, according to the returns, much more than the average per cent. died before reaching the age of one year; that is, children born during the fore part of the year were most liable to die before reaching the age of one year, while those born in the latter part of the year were most likely to live beyond their first "birthday." This might be only apparent and due to a more complete return of the births in the later months of the year, but it holds true in only the exhibit for 1874: in the corresponding exhibits for previous years, the per cent. of the children born in the several months who die before reaching the age of one year is shown to be quite uniform throughout the year. The excess of per cent. of males over females who were born in 1873 and died under one year of age is less than for either of the preceding years, the excess for each year being: 1873, 1.47 per cent.; 1872, 1.69 per cent.; 1871, 2.03 per cent.

Exhibit 4 is believed to be a very valuable one in plan, because showing according to evidence in the returns the relative influence of season upon the mortality of children born in each month of 1873, who died under one year of age. The first column of figures at the left contains the number of children born in 1873 and in each month of that year who died before reaching the age of one year; and the columns at the right of the first column show the months of the years 1873 and 1874 in which the children who were born in each month of the year 1873, and who died aged under one year, died, giving the number of such deaths in each month. The first diagonal column shows that a very large proportion of the children born die during the month of birth, or before they are one month old. At the bottom of the exhibit is shown the number of children who were born in 1873 who died at each month of age under one year; and the number of such children who died during the month of birth. or under one month of age, was 1,278, which is 38.33 per cent. of all the children born in 1873 who died aged under one year, according to the returns of births and deaths. It may seem, at first thought, that the still-births, which are included in the exhibit, will vitiate the showing; but inasmuch as they are included in the returns both of births and deaths, the relation will be maintained, so that the last column to the right of the exhibit, containing the per cent. of the children who died during the month of birth to the children born in each month of the year 1873 who died under one year of age, is, if the returns are reliable, a very valuable one, showing the relative danger of death to the children born in each month. Of course the value of this column depends greatly upon the uniformity of accuracy and completeness in the enumeration and returns of births and deaths, and it has seemed that the returns of births were usually rather more complete than the returns of deaths; but, proceeding upon the hypothesis that the errors and omissions in the enumeration of births are proportional to those in the enumeration of deaths, the children born in September are in the greatest danger of dying during the month of birth, while those born in January are most likely to live past the age of one month; that is, the chances of "bridging over" the first month are greatest for children born in January, and least for those born in September. This column is an additional feature in Exhibit 4, the whole exhibit being the first of the kind which has come to the notice of the compiler.

EXHIBIT 4.—The Months of Birth and of Death of Children born in 1874 who Died Under One Year of Age.

	'878'				M	Моктия	40	БЕАТИ,	, 1873.	69							Me	Моктив	40	DEATH,	, 1874,	4			10.1	a'ba
MONTHS OF BIRTHS, 1873.	Birthe, I Died un L	.ant	Lop	Mar.	Arrel	May.	Jane,	July	And	Sept.	Joo.	Nov.	Dec.	.ant	Kep.	Mar.	April.	May.	Jane	-cinc	-Zuy	gobç	.toO	'AON	Dec.	Deceder Aged an IdoK I
Born in 1873, died aged under I year.	3,334	67	134	120	169	140	189	283	417	400	976	808	267	61	8	7.0	92	20	36	96	92	11	12	00		
January	8	3	18	19	3/	3/	13/	33	3	8	13/	10/	19/	1	N.	11	11		11	i	1 1	1	İ	1 1	11	81
February	8	-	3/	13/	81	3	10/	5	3/	5	2/	-/	3/	9	y		i	i	Ť	Ė	-	i	i	-	1	36.71
March	333	i	1	9/	8	E /	3	8	10	15	3/	=/	1	01/	0/	y	Ť	1	Ť	i	1	i	-	\pm	1	35.71
April	303	1	1		2/	3/	5	8	5	8	=/	3/	0/	17	9/	0	7	1	i	i	i	i	i	÷	1	33,99
Мау	267	1	1	1	1	E	a/	8	5	8	=	2	3/	7	0/	3/	9	y	Ť	i	Ť		Ť	+	1	8
June	257	1	i	1	- 1	1	8	8	23/	8	12/	10	"/	0/	00/	17	3/	0)	7		i	i	1	1	+	38.91
July	28	1	1	1	-	1	1	3/	15/	3	8	=/	2	-/	10)	1-	13/	3/	01/	7	Ť	Ť	-	1	-	38.33
August	274		- 1	i	- 1	- 1	-	1	3/	3/	8	=/	1-/	1	7	=	2/	0/	9/	3/	7	i	i	-	:	43.43
September	270	1	1	-		1	-	1	1	100	8	2/	8/	10/	0	0/	23/	17	1-	0/	3/	7	i	÷	1	49.63
October	472	1	1	1	- 1	1	1	1	-	T	=/	2/	2/	10/	10/	10/	2/	10)	10	8	8	8	y	1	1	41.61
November	247	1	1	i	- 1		i	T		1	1	3/	8	10/	3/	=/	10)	0)	10)	1-	13/	83/	23/	1	1	45.11
December	266	1				T		Ħ	T				8	5	3	2	0,	1	0	9	8	8	2	2	4	48.80
Deaths at each (No. of Deaths	3,331	1	- 1		-	-1	1	-1	1	1	1			1278	353	266	251	182	ш	175	160	101	7	129	121	38,33
Age Ages in Months					- 3									7	7	0	01	7	NG.	·	-	oc	0	10	-	

That is, per cent. of children who died during month of birth.

Exhibit 5 shows, by sex, by months, the number of births, the number of decedents aged under one month, and the per cent. of such decedent to births. The per cent. of such deaths to births for the year is greater for males than for females. The per cent. of the total deaths of persons aged under one month to the total births is greatest in June and August, least in November; among the males, the greatest per cent. is in December, the least in January; and among the females, the greatest per cent. One interesting point of evidence in this exhibit is that 4.42 per cent. of the children returned as having been born in 1874 died aged under one month. This includes still-born children.

EXHIBIT 5.—The Relation by Months, by Total, and by Sex, of the Decedents Aged Under One Month to the Births in Michigan during the Year ending December 31, 1874.

č		YEAR,						MoN	Момтив, 1874.	74.					
.	SEA, ETC., SPECIFIED.	1874.	Jan.	Feb.	March.	A pril.	May.	June.	July.	Angust.	Sept.	Oct.	Nov.	Dec.	Uak.
	Births	31,151	1,899	1,954	2,462	2,464	2,586	2,558	2,761	3,077	2,972	2,726	2,738	2,921	45
Total	Deaths aged under one month	1,377	11	22	83	118	132	107	113	167	139	355	87	145	89
	Per Cent. of Deaths to Births	4.43	3.74	3.90	3.74	4.70	\$, 10	4.18	6.8	5.10	4.68	4.59	3.56	96.7	6.67
	Births	16,283	903	1,034	1,296	1,301	1,336	1,331	1,482	1,587	1,544	1,496	1,388	1,540	ន
Males	Deaths aged under one month	977	£	=	21	15	æ	2	8	8	89	8	<u></u>	88	-
	Per Cent. of Deaths to Births	£ 75	3.32	3.96	3.92	5.78	5.84	5.33	4.30	5.23	4.40	181	3.75	5.91	£.35
	Births	14,819	300	916	1, 160	1,162	1,247	1,254	1,275	1,486	1,436	1,335	1,333	1,373	11
Females	Deaths aged under one month	570	8	æ	8	5	252	8	9	22	8	23	43	3	64
	Per Cent. of Deaths to Births	88	4.30	3.60	3.28	3.70	4.17	2.94	8 13	5.59	1.77	4.02	3.15	3.86	11.76
	Births	9	7	-	•	-	တ	9	•	•	01	10	•	80	ю.
Onknown.	Deaths aged under one month	8		→	e:		61		•	-	20	4	80	80	

. Still births included.

According to Table IX., and the corresponding tables for previous years, there were more decedents aged one hundred years and over in Michigan in 1874 than in either of the preceding years 1870–1873, the order of the years, greatest number first, being: 1874, 10; 1870, 8; 1871, 7; 1872, 4; 1873, 4. Of the ten centenarians who died in 1874, six were born in the United States, three in Ireland, and one in Scotland; and the assigned cause of death of nine of them was Old Age, and of one, Dropsy.

TABLE IX.—Deaths in Michigan, during the Year 1874, of those Aged One Hundred Years and Over, exhibiting all the details concerning them included in the Returns.

		-											
2		-	Married, Single,			AGE.			PLACE OF DEATH.	Вкати.	ВАТЕ ОГ ВЕАТИ.	KATH.	Cause of
	i Š		or Widowed.	Dirthplace	Yours.	Years, Mo's. Days.	Days	Occupation.	Town.	County.	Month.	Day.	Death.
Jane Baw-go-Zhick Female Indian.	Female	Indian.		Michigan	뙲				Isabella July	Isabella	July	នា	Old Age.
Basil Harrison Male White.	Male	White.		Maryland	30	•	23	Farmer	15 Farmer Prairie Ronde Kalamazoo August	Kalamazoo	August		30 Old Age.
Permetia Goodrich Female. White.	Female.	White.	Widow	Widow Massachusetts .	8	6 0	엄	Farmer's wife	Farmer's wife Bruce Macomb March	Macomb	March	21	12 Old Age.
Patrick Koegan Male White. Married Ireland	Male	White.	Married	Ireland	105			Farmer	Farmer Monroe Monroe December.	Monroe	December.		9 Old Age.
Ellen Ann McDougald Female White. Widow Scotland	Female	White.	Widow	Scotland	8	Unk.	Unk.	House-keeper	Unk. Unk. House-keeper Austin Sanilac September	Sanilac	September	80	Old Age.
"Michigaum" Male Indian. Single Michigan	Male	Indian.	Single	Michigan	ᅙ		:	Trapper	Trapper Manistique Schoolcraft June	Schoolcraft.	June	8	20 Old Age.
Elizabeth Wait Female. White. Widow Vermont	Female.	White.	Widow	Vermont	105	_ <u>:</u>		House-keeper	House-keeper Burchville St. Clair May	St. Clair	May	8	19 Old Age.
Daniel Ward Male White. Widower. Ireland	Male	White.	Widower.	Ireland	901			Laborer	Laborer Detroit	Wayne January	January	ន	25 Old Age.
Mary A. Warr Female. Black. Widow Virginia	Female_	Black.	Widow	Virginia	8			House-keeper Detroit	Detroit	Wayne December.	December.		5 Dropsy.
Jane McFarlan Female. White. Widow Ireland	Female -	White.	Widow	Ireland	101	i		None	104 None Livonia Wayne September	Wayne	September		10 Old Age.

ment, representing a population in 1870 of 12,100. This number is larger than the number shown in the corresponding exhibit for 1873, but much less than the number for 1871 or 1872. The 12,100 inhabitants which are not represented in this is enough to probably influence some important teaching of these statistics. It is, therefore, to be regretted that so the returns of deaths for 1874 would, at the average death-rate, contribute about 100 deaths to the number returned; and Exhibit H shows the counties and townships from which no returns of death for 1874 were received by the State Depart-

many of the supervisors and assessors neglect the important duty of making proper returns. Every supervisor and assessor in the State should make an official return to his county clerk whether or not any births or deaths occurred within his jurisdiction.

EXHIBIT H.—Counties and Townships from which no Returns of Deaths for 1874 were received by this Department, showing Population, June 1, 1870, by Sex, Color, and Nativily.

								Pol	POPULATION,	TION	JUNE,		1, 1870.							
				-					8	COLOR OR RACE.	RACE	<u>.</u>						NATIVITY.	ITY.	
COUNTIES	Townships.	L	TOTAL.		W	Wите.	-	PA	BLACK.		Ŕ	MULATTO.		ij	INDIAN.		NATIVE.	2	FOREIGN.	10 N.
		Total.	Males.	Fe. nales.	Total.	Malos. m	Fe. males.	Total. Males.	Malce.	Fe. 7	Total, Malos.	falos.	Fe. males.	Total, Males.	falos.	Fe. males.	Males. n	Fe. nales.	Malos.	Fe- males.
Total		12,100	6,678	5,422	11,374	6,332	5,052	2	10	20	88	71	13	98	887	853	1,674	4,092	2,004	1,33
Alpena Ossineke	Ossineke	14	16	8	*	1 20	8			İ	İ		Ī				8	2	ន	ಹ
Antrim Otsego Lakeab	Otsego Lakeab	i	i	$\dot{\parallel}$	i	+	-	İ	i	i	i	i	İ	Ì	-	1	$\dot{1}$	Ť	-	į
Bay Clayto	Claytonb		:	$\frac{\cdot}{1}$	<u> </u>	 	i	i	İ	i	Ť	i	i	İ	i	i	i	Ť	Ī	
	(Burt	2	ಹ	8	2	10	_ .	<u> </u>	Ť	i	i	<u> </u>		8	8	8	31	35	n	•
Cheboygan	Inverness	1,884	730	28	1,235	202	533	i	i	1	9	80	တ	S	8	88	301	342	330	252
	Sugar Island	83	133	35	921	82	8	i	i	i	i	i	-	88	15	37	8	8	67	45
Catpbows	Warner	83	137	101	158	88	8	i	i	i	i	:	:	86	88	2	8	29	92	ಹ
	Masonville	153	28		153	38	:	i	i	<u>:</u>	i	i	i	i	:	-	8	8	8	2
Delta	Sack Bayb		i	 		i	i	i	i	<u>:</u>	i	i	Ť	i	÷	÷	+	i	i	
	Winonab		<u> </u>	$\dot{\parallel}$	$\dot{\parallel}$	-	Ť	i	i	i	÷	i	i	-	÷	÷	÷	i	-	
Emmet Bear	Bear Creek	ă	181	120	18	33	•	i	i	<u>:</u>	i	<u> </u>		88	131	118	132	811	61	64
Grand Traverse White	Whitewater	210	27.1	8	210	172	83	i	İ	i	i	<u> </u>	i	÷	$\frac{\cdot}{\parallel}$	i	28	181	8	3
Gratiot	Elba	323	179	171	23	621	771										100		:	13

. County Clerk says there were no returns of Deaths from the Supervisor. . Organized since Census was taken.

EXHIBIT H.—Continued.—Townships from which no Returns were Received.

								Po	POPULAT ON	(T 0)		JUNE	7	70.						
	i		1					11110	COI	COLOR OR RACE.	RAC)	ež.						NATIVITY	VITY	
COUNTIES.	TOWNSHIPS.		TOTAL.	Ī		WHITE.			BLACK.		N	MULATTO.	,		INDIAN.		NAT	NATIVE.	FOREIGN.	IGN.
		Total.	Males.	Fe-	Total.	Males,	Fe- males.	Total.	Males.	Fe. males.	Total.	Males,	Fe. males.	Total.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe. males.
	Bloomfield•b																			
	Brookfield	116	88	8	116	83	48	-	-	-	1	-		-		-	75	33	#	ន
Huron	Meade	213	711	8	212	117	35		-		-	-	-		1		\$	37	11	83
	Sand Beach	99	375	ន	999	374	291	1	-		-	-				-	179	166	96	55
	White Rock	270	143	82	270	142	128	-	1		-	-	-	-	-	-	85	:8	23	\$
Iosco	Baldwin ac		-	-	-	-	-	-		-	-	-	-	-	-		:		-	
	Chippewa	315	168	147	315	108	147	-	1	-		-		-		-	152	135	92	52
Testolle	Rolland	930	86	20	198	100	86	-		-	27	00	*	-		*****	101	97	-	10
13a Della	Sherman	131	8	25	134	82	19	-	-	1	-	-	1	-		******	8	8	25	22
	Union	667	830	337	657	350	337	-			-	-		-		-	282	83	æ	\$
Mackinac	Holmes	937	487	3	838	447	391	-	1	-	-	-	-	66	40	20	356	7	131	8
Manistee	Arcadia	175	8	80	175	93	85	-	-	-	1	-		i		-	81	7.	22	œ
	Chandler	8	106	35	190	106	78	-		-	-	-	-	-	-	******	8	Z	\$	ဇ္တ
Manitou	Galilee	8	103	8	203	103	100	*****	-	-		-	-	-	-	-	19	ま	¥ .	98
	South Maniton	76	8	28	76	25	28	-	1			-	-		-	-	75	27	7	11
Marquette	Forsythab		į		-	-				-	-	-			-	-				
	Branchb	i			-		-				*****	-	-		-	-	i	i		
	Free Soil	143	2	8	142	62	8	-		-		-		1	-	-	8	3	*	7.
Z	Hamlin	181	86	\$	117	11	40	-	-	1	i	-	1	2	80	4	28	83	\$	16
A about	Lincoln	186	88	8	165	66	99	-		-	-	-	*****			-	91	4	3	7
	Summit	28	187	81	257	137	120	-	1	-	-	-	-	-	*****		88	8	83	8
	Victory	314	Ë	251	293	168	125	6	7	9				12	7	0	35	98	33	23

	Edenville ab		-	$\frac{\cdot}{1}$	$\frac{\cdot}{\parallel}$	$\frac{\cdot}{1}$	+	+	+	T	İ	Ī	İ	i	İ			i	İ	
Midland,	Jasper	82	8	8	83	8	23	$\frac{\cdot}{1}$	+	+		Ť	i	i	i	-	\$	L	18	13
	Porter	88	97	8	83	\$	8	$\frac{\cdot}{1}$	$\frac{\cdot}{1}$	<u>:</u>		İ	Ì	i	İ	1	×	81	9	1
	Douglass	88	ğ	10	88	<u>\$</u>	<u>;</u>	+		+	$\frac{\cdot}{1}$	i	İ	i	i	-	8	88	71	18
	Home	173	101	22	173	101	22	1	$\frac{\cdot}{1}$	$\frac{\cdot}{\parallel}$	<u> </u>	İ	İ	i	Ì	Ī	76	3	7	7
Montcaim	Reynolds	8	88	8	8	88	98	$\frac{1}{1}$	-		-	i	i	i	İ	-	217	173	\$3	27
	Winfield	828	8	138	326	190	136	-	<u> </u>	$\frac{\cdot}{1}$	<u> </u>	İ	i	i	i	i	143	103	3	S
	Fruitland	877	132	8	88	132	88	$\frac{\cdot}{1}$	i	-	<u> </u>	i	i	Ť	Ī	-	헍	81	æ	12
o nogayanw	Fruitport	i	i	i	i	<u> </u>	+	i	<u> </u>	i	i	i	i	Ì	i	Ť	Ť	İ	i	
Newaygo Broo	Brooks	974	910	\$	917	8	£33	$\frac{\cdot}{1}$	<u> </u>	-	80	8	ю	8	ឌ	8	415	\$	33	3
Oceana Newfield	Newfield	265	35	111	33	3	==	-	<u> </u>	-		i	i	i	Ì		3	101	21	2
Osceola Hart	Hartwick	1.1	ង	81	1.7	ន	83		<u>:</u>	-		Ť	İ	i			a	83	61	i
	(Presque Isle. ab			i	i	$\frac{\cdot}{1}$	1	<u> </u>	-	$\frac{\cdot}{1}$	<u> </u>	Ť	Ì	i	Ī	İ	Ì	i	Ì	
Fresque 1816	Rogers	33	23	126	3	83	:	<u> </u>	<u> </u>	$\frac{\cdot}{1}$	Ť	i		-		-	8	\$	173	88
	(Albee	197	115	88	197	113	88	-	+	<u>:</u>	$\dot{\parallel}$	İ	Ì	Ì	Ì		8	2	ક	23
Saginaw	Chapin	823	138	81	83	88	25	 	$\frac{\cdot}{1}$	<u> </u>	$\dot{\parallel}$	Ť	Ì	İ			130	011	16	75
Weeford	Clam Lakeb		i	i	$\dot{\parallel}$	$\dot{\parallel}$	<u> </u>		<u> </u>	<u>:</u>	i	Ť	İ	Ť	Ì	İ	Ť	i	Ī	
·····	Harring		i	$\dot{\parallel}$	$\frac{\cdot}{\parallel}$	-		$\frac{\cdot}{\parallel}$	$\dot{\parallel}$	$\frac{\cdot}{1}$	i	Ť	İ	Ť			i	Ť	İ	

. County Clerk says there were no returns of Deaths from the Supervisor. Dorganized since Census was taken. No population reported.

not safe to be drawn. It seems hardly credible, for instance, that the township of Big Prairie, in Newaygo county, containing 402 inhabitants in 1870, or Groton, in the same county, containing 923 inhabitants in 1870, should not have any deaths in 1874; and yet it is so reported to this Department by the county clerk. It is probable that if the returns were properly 1873, but smaller than in 1871 or 1872. The returns, however, are not very reliable in this regard, some of the county clerks seeming to conclude that because there were no returns from the supervisor there were no deaths, which inference is According to the returns, the number of inhabitants among whom there were no deaths in 1874 is much greater than in and correctly made the number of inhabitants among whom it is reported that there were no deaths would be much less.

EXHIBIT I.—Counties and Townships in which it is Reported that no Deaths Occurred in 1874.

	00001100 10 1011.			
		Popula	tion, June 1,	1870.
COUNTIES.	Townships.	Total.	Males.	Females,
Total		2,539	1,427	1,112
Antrim	Forest Home			
	(Colfax	71	36	85
Benzie	{ IIomestead	163	81	82
Charlevoix	Boyne Valley			
Clare	. Winfield	ı		
	(Grant	107	63	44
Iosco	Thompson			
	(Cold Springs			
Kalkaska	Wilson			
	(Grant	152	75	77
Keweenaw	Isle Royalb			
	• • • • • • • • • • • • • • • • • • • •			
Lake	Webber			
Leclanaw				
Doorning #	(Colfax	146	98	48
Mecosta	Fork	163	91	72
		196	148	
Menominee	}	_		48
	(Ingaliston	6		
	Caldwell	·	·····	
	Clam Union	l		
Missaukee	. Pioneer			
	Riverside		-	
	West Branch		 	
	Big Prairie	402	221	181
Newaygo	Croton	923	499	434
	Norwich			
Ontonagon	. Algonquin	54	30	24
Osceola	Cedar	 		
Sanilac	Moore	113	68	45
Daniac	Watertown	49	27	23
	Antioch	 		
	Cedar Creek			
Wexford	Cherry Grove	 		
	Greenwood	 		
	Henderson	 		
		<u> </u>	1	

[•] Organized since census was taken.

b No population reported.

TABLE X.—Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having Occurred in Michigan

								Mo	Момтия, 1874.	187													Ages, 1874.	, 187	*								
STATE AND COUNTIES.	A. X.	Yean, 1874.	January.	February.	March.	April	May.	June.	July.	-	August.	September.	October.	November.	December,	Unknown.	Under 5.	-	10 to 15.	10 to 20,	20 to 25,	25 to 30,	.66 to 35.	85 to 40.	40 to 45,	45 to 50.	50 to 55.	.09 of 66	60 to 65.	.07 of 68	70 to 75.	75 to 80.	80 and over.
	[Total 15	12,500	635	673	919	1102	1071		998	965 13	1388 15	1517 12	11511	1 896	1120	46 51	5138 5	294 3	329	930	819	514	434	440 3	390 3	384 3	397 3	398	160	454	434	318	407 231
Clots	Males	6,665	335	349	200	909	6 551		471 50	524 7	736 8	805 6	640	517	909	88	8585	351	183	235	273	252	184	189	202	504	231	232	293	272	252	191	204 124
	Females	908'9	330	319	416	3 496	8 518		395 4	135	129	711 5	292	448	210	18 22	2280	273	176	202	345	287	520	251	188	160	166 1	166	167	185	182	127	203
	Unknown	150	1	*	99	1		61	1	9	-	+	+	00	4	1	30	1	-	1	Ť	1	1	1	1	i	i	1	i	1	1	1	1
	Total	11	-	-		-	-			01	1	00	~	-	1	-1	-	1		-	-	-	-	i	1	i	1	-	1	- 1	- 1	- 1	- 1
	Males	00	-	1	i		1	-		1	1	-	1	1	1	-	G1	1	1	;	-	i	1	:	;	i	÷	i	1	1	1	1	1
Alconh	Females.	7	1	1			:	1		-	- 1	01	1	-	1	1	-	1	- 1	-	1	- 1	н	:	1	1	1	=	1	1	1	1	1
	Unknown	-	1	-	1	1	1	1	+	1	+	+	i	1	T	1		+	+	1	i	1	T	1	1	-	÷	1	- 1	1	1	1	1
	Total	311	10	81	81	88		51	133	17	3	2	88	25	6	-	051	55	=	=	=	=	16	25	=	00	Ħ	18	17	6	=	10	- 00
Allegan	Males	174	10	12	13	18		-	15	10	150	23	12	53	14	- 1	89	9	10	*	4	-	11	7	9	9	9	00	=	9	9	9	10
	Females	137	9	10	6	10		10	10	1+	130	30	22	=	13	-	25	9	9	1	1	4	10	9	10	01	10	10	9	00	40	*	4
	[Total	85	-	1	01	-		60			90	2	4	99	01	- 1	- 08	- 1	:	-	25	H	1	1	-1	-	-	61	-	1	- 1	-	-
Alpena	Males	19	1	4	01	- 1	-	-	- 1	-	00	9	01	00	1	- 1	101	1	1	1	00	-	1	- {	1	7	7	7	F	1	-	1	+
	Females	13	1	1	1	1	-	61	-		10	-	C)	1	01		10	+	:	-	÷	Ì	Ì	:	1	1	1	-	1	-	- 1	1	-
	Total	555	62	20	1		Q4	-	9	10	-	01	4	1	60		18	-	-	01	01	03	-	01	-	-	-	1	-	- 1	- 1	C1	i
Antrim	Males	13	-	00	1		1	-	4	60	-	Oli	+	1	-	-	15	-	+	-	i	1	-	-	1	1	-	i	T	1	-	04	1
	Females	10	0			_		7	0	0	_	_			0				-	,		-		,		-			,				

· For counties and townships not represented by returns of deaths in 1874, see Exhibit H, pages 149-151.

TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Ags.

								Mos	MONTHS,	1874													Ages,	8, 1874.	4								
COUNTIES.	SEX.	YEAR, 1874.	January.	February.	March.	April	May.	June,	July.	August.	September.	October.	Мочетрет	December,	Ппіспоми.	Under 5.	2 10 10	10 to 12,	15 to 20.	.62 of 02	32 to 30°	30 to 35.	.0b of 68	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	.07 01 68	70 to 75.	1 75 to 80.	SO and over.	
	(Total	10	00	1		01		1 01			-			1	1 :	10				1	64				1	-			:	- ;	1	1	
Baraga	Males	9	1	- 1		-	-	91	_		_		1	1	-1	60	- 1	i	-		_	1	- 1	_	1	_	- 1	-	-	- 1	i	- 1	
	Females.	*	64	1	1	-	1		-	i		1	1	1	1	04	1		1	1	-	i	1	1		1		1	1		÷	1	
	[Total	195	9	=	18	81	139		6	9 13	93	81	71	151	- 1	67	10	04	10	00	2	10	80	9	1-	12	100	11	6	13	9	9	
	Males	105	9	-	6	10		0	9	5 10	14	80	6		. 6	4	13	_	01	61	G.	01	_	13	60	9	-		7 6	=	01	61	
Barry	Females	80	00	7	90	9	10		60	*	3 11	14		- 00	100	84	20	-	00	9	10	00	7		*	9	4	-	20	0.9	*	4	
	Unknown	1	1	1	1	1		- 1	4	1	1	1	1	1	1	1	1	i	1	1	i	i	1	1	1	1	1	1	-1	- }	1	+	
	Total	250	10	10	13	19	18		80	43	36	88	83	3 17	7 1	135	20	10	6	17		16	6	9	01	6	-		80	10	7	1 3	
Bay	Males	137	8	10	-	9	10		6 12	58	8 18	3 13	15		10 1	75	11	9	4	4	1	10	7	-	1	10	1	1	C4	*	*	1	
	Females.	113	*	13	0	13	90		51	15	18	3 16		90	-	99	9	K	20	7	*	9	G1	C.	94	4	-		61	н		61	
	Total	26	-	C)	64	01	-		01		01	01		01	60	15	į	1	_	j	4	1	_ [1	G1	-		64	- ;	-	- ;	
Benzie	Males	t.	-	-	-	1	1	1	1	- 1	-	1		_	60	60	1	1	1	1	04	1	1	1	1	7	1		-	-1	÷	+	
	Females.	19	i	-	01	64	-		O1		01	10		-	1	13	i	_	1	1	01	1	1	_	1	_		_	1	1	i	1	
	[Total	395	8	90	33	4	39	35	2 18	88	8 47	38	57	124	60	140	8	10	16	18	=	8	10	12	53	16	14	16	3 17	17	8	19	
Berrien	Males	219	17	12	22	16	84	22	8	318	8 27	91 2	14		16 2	82	=	_	=	6	Ct	7	00	22	16	00	0	12	10	6	9	63	
	Females.	176	9	80	12	25	1		14 10	20	0 20	18	23		8 1	59	6	_	13	6	6	00	01	90	-	90		6	7	20	4	8	

	[Total	220	22	14	17	13	61	61	12	56	28	55	14	17	1 70	_	6						7	00	7	14	Ê	10	9 10	7	••
	Males	114	00	7	11	00	12	13	30	7	61	11	9	9	1 38	7	9	•	9	5	Ç4	-	1	9	7	90	01	2	9	90	C1
Branch	Females.	100	*	-	9	=	10	-	9	15	10	10		=	25		*			04				99	03	9	-	_	*	*	-
	Unknown		:	1	1	:	1	1	:	:	-	1	1	1	-	1		1	1	1	1	1	1	1	1	1	÷	1	-	1	:
	[Total	300	139	30	65			83	12	8	7	22	15	83	80		9	10	6	20		1	17	10	-	75	Ē	18 21	11	17	61
Calhoun	Males	154	10	10	00	81	13	10	11	21	27	21	00		83	4	.01		9	7	*			02	9	7		5	2	10	-
	Females	146	0	2	13			11	10	16	14	13	1-	23	7	6		9	00	13	*	*		-	0	10	80	9	17	-	-
	Total	141	01	7	11	17	0	7	1	Ġ.	19	7	18	6	- 41	9		9	-	60	0	10	*	9	00	6		_	6	6	•
Cass	Malca	27	- 5	0	00	6	00	01	*	10	10	6	=	9	81	03	01	00	*	-	1			60	10	ю	*	9	61	60	-
	Females.	8	09	01	60	00	13	10	95	4	6	10	-	4	. 19	20	-	60	90	60	10	64	60	86	00	4		_	61	9	61
	Total	01	1	01	04	-	01	- 1	00	- 63	O1	61	- 1	09	6	8		_	- 1	64		- ;		+	H	- 1		- 1	- 1	- 1	:
Charlevoix Males	Males	0	1	1	:	1	-1	1	04	н	-	01	1	H	10	1	.04	- 1	-1	1	-	-	4	1		1	÷	÷	+	- 1	:
	Females.	33		1	O.	- [¢4	1	1	64	-	1	;	ON	*	01	- 1	-		01	-	_	1	-	H	-	•	÷	+		:
	[Total	2	- 7	63	C+	04	.04	-	90	4	-	1	4	-	8		-	i	C.		-	- 1	~	1	-	1		-	+	- 1	
Cheboygan Males	Males	12	н	04	-	1	- 1	I	1	64	1	1	60	Ť	6	- 1		1	-	- 1	1	1	_	- 1	H	1	1	÷	+		:
	Females.	13	1	1	-	-	01	1	04	64	-	1	H	-	6	1	-	1	-	1	-	1	1	1	1	1	1	1	1	1	:
	Total	00	1	1	1	- 1	1	1	- 1	1	61	64	1	i	- 1	19	1	-	-	- 1	-	1	1	- 1	·	1		-	+	-:	:
Chippewa	Males	10	1	-	1	i	-	1	1	1	-	1	1	Ť	1		- 1	ì	1	1	-	1	1	1		1		=	+	- 1	:
	Females.	69	1	1	1	1	i	1	1	1	1	01	1	T	1	01	1	-	1	1	1	1	1	E	i	1		÷	+	:	1
	Total	88	- 1	1			01	÷	н	Ф	7	10	*	04	1 13	*	-	-				1	- 1	-	-	-	1	+	-	-	:
Clare	Males	16	;		1	1	:	1	-	*	00	99	01	C4		8	1	1	54	-	61	1	1	1	-	1	1	÷	1	-	:
	Females.	12	1	H	1	-	C4	1		01	-	60	01	T	-	60	-	-	1	1	64	1	1	-	1	1	-1	÷	1	÷	<u>:</u>
				ı								ĺ	l	١	l		١	١	I			I				l	l	l	l		ı

TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age.

								MONTHS, 1874.	TH8,	1874.												•	Ag es , 1874.	, 187	ź							
COUNTIES.	98 X.	YEAR, 1874.	-Livuuve	February.	March.	April,	May.	nne-	July.	Isugua	September.	October,	November.	December.	Unknown.	Under 5.	5 to 10.	10 10 12	15 to 20,	20 to 25.	52 to 30°	.56 of 08	32 to 40.	.6k of 0k	45 to 50.	.66 of 05	55 to 60.	.60 to 65.	.00 to 100	70 to 75,	75 to 80.	S0 and over,
	[Total	, 85 1	9	-	=	15	74	11	15	81	67	88	17	81	1	69	9	90	1 2	16	00		,	, KQ		1 8	1 2	9	9	9	10	6
	Males	ă	60	4	-	10	14		90	8	7	17	6	=	1	52	4	10	0	80	00	93	9	10	-	-	4	9	9	01	9	*
Clinton	Females.	91	99	O4	-	10	10		-	13	10	=	90	=	1	150	01	80	7	13	10	-	2	:	_	-	9	-	1	4	*	0
	Unknown	_	- 1	-	1	1	,	1	i	1	-	- [1	1	1	-	1	-1	1	1	1	1	1	E4.	1	1	1	+	1	+	1.	1
	Total	8	Q1	-	_	20	-	7	-	00	•	00	00	10	1	55	-	- 1	01	01	60	1	61			1	-	- 1	1	-	- 1	-
Delta	Males	R	1	1	-	00	-	-	_	21	01	01	60	60	1	14	1	1	- 1	1	C.	-	_	.:	1	1	1	1	i	÷	- 7	
	Females.	9	-	-	02	1	1.6	•		9	04	-	1	G1	1	6	1	1	01	-		1	-	-	1	1	1	+	1	-	1	1
	Total	8	16	7	- 77	17	14	8	61	64	60	22	71	83	-	87	77	10	10	55	п	21	12	9		61	03	- 00	=	10	10	00
	Males	146	10	7	=	7	0	15	51	34	18	13	35	13	-	20	90	7	9	6	-	00	9	7		10	64	-	19	4	*	00
Katon	Females	80	9	2	62	8	10	00	6	7	=	=	1-	9	1	30	9	00	*	60	Į.	*	9	60	-	-	-	-	10	10	1	10
	Unknown	1	1	1	1	1		17	i	1	1	1	-	1	1	-	1	1	1	1	1	1	1	-1	1	1	1	1	i	1	1	1
	Total	23	.04	10	13	e,		01	1	i	į	1	- 3	-	- 1	14	10	- 1	04	-	01	1	- 1	-		-	61	-	01	- ;	1	_;
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	Females.	11	- 1	*	*	-	-	-	1	İ	1	1	1	1	1	10	-	1	-	1			4	1		-	-	-	+	+	1	1
	Total	220	21	9	17	90	18	7	7	81	65	81	22	81	-:	71	21	1	8	11	00	2		=	_	-	61	9	120	8 13	9	00
Genesee	Males	119	2	G.		9	6	30	80	15	16	13	12	15	-	45	4	*	9	00	*	*		-	-	68	1	9	1-	10	60	
	Females .	101	9	*	10	11	9	*	9	7	133	6	21	10	- 1	98	90	00	14	80	4	9	4	7		91	1	+	9	50	00	-

Gr. Traverse.																												1		-		
Gr. Traverse	Total	28	*	C4	00	O.	-	0.9	01	00	-	*	-	*	;	05	1	-	Q+	i	1	1	-	1	-	-	1	-	01	28	-	-
	Males	15	*	-	C4	01	-	-	1	1	1	64	-	-	1	00	7	-	1	1	1	r	1	1	i	İ	1	1	-	-	-	_
	Females.	30	1	-	н	1	1	1	63	69	-	01	1	00	1	61	÷	1	01	1	i	-	r	1	-	1	1	-	-	-	1	:
	Total	127	10	1-	00	*		co.		14	17	155	16	=	-:	19	00	4	9	00	10	*	10	+	G)	40	G4	00	*	4	4	_
Gratiot	Males	65	-	*	00	01	10		00	10	90	00	6	*	1	35	01	-	00	-	01	-	03	-	Q4	01	01	9	69	04	-	-
	Females.	65	9	00	1	01		4		6	G	9	1	-	1	27	1	00	60	Q1	00	00	20	60	1	60	-1	04	01	01	00	•
	Total	151	15	21	25	27	30	=		16	98	98	16	15	1	45	1	22	62	10	10	30	g	9	*	21	1	7	9 18	==	21	00
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Hillsdale	Females.	106	10	9	11	13	11	7		00	14	7	00	9	-	03	н	1	9	00	0	9	7	*	01	9	1-	01	00	9	9	80
	Unknown	04	1	1	1	-	1	1	64	-	1	1	i		-	C)	1	+	1	i	i	Ť	İ	i	T	Ť	İ	i	-	1	1	
	Total	255	=	90	16	19	83	17	6	31	13	8	27	17	-	7	90	15	9	10	13	9	-	00	00	10	50	-	-		1	63
Houghton Males	Males	134	10	0	00	10	15	11	13	2	13	12	00	1		85	*	10	*	10	6	61	4	60	60	-	00	C)	04	- !	:	64
	Females.	16	9	00	90	6	10	9	90	7	-	13	7	9	1	65	*	01	01	1	*	*	20	10	-	61	1	Ol	-	1	1	
	Total	111	0	-	10	10	15	30	90	10	1	30	1-	00	- 1	98	9	64	80	9	10	100	01	91	90	4	20	_	60	-	03	
Human	Males	61	01	-	91	(0)	10	90	-	*	0	61	9	00	1	30	00	54	:	-	10	01	1	14	91	99	-	10	91	-	QI	
	Females	49	20	94	00	80	10	01	1	10	10	90	1	10	1	151	00	1	20	10	÷	-	61	1	-	-	69	64	-	-1	1	
	Unknown	-	1	-	1	1	i	1	1	T	1	Ť	1	Ť	:	-	+	-:-	1	+	1	+	1	1	1	i	1	1	÷	1	1	
	Total	262	16	13	2	18	27	17	90	19	45	81	9	88	-	00	22		20	=	7	6	14	*	00	10	0	00	13	10	10	10
Ingham	Malcs	135	10	40	14	30	14	90	11	13	22	=	9				90	4	10	10	01	10	00	01	10	9	7	49	7 6	-	4	_
3	Females	127	=	90	10	6	13	6	0	1	18	=	0	133	1	9	10		00	9	10	4	=	01	00	*	Qì	60	8	4	9	-
	Total	286	14	-	8	98	38	10	16	90	34	21	56	31			*		7	17	25	1	19	10	9	9	00	10	6	10	21	
Ionia	Males	147	10	2	0	13	90	9	15	11	13	16	22	8	00	29	п	01	10	00	11	10	t-	20	10	*	4	4	6	-	10	-
7	Females.	139	*	23	11	120	20	*	6	6	5	16	23	7	9	-	00		6	11	133	01	00	01	-	01	4	9	5	63	-	.00

								M	MONTHS,	8, 1874.															Ag	Ages, 1874.	1874.								
COUNTIES.	SEX.	Yean, 1874.	January.	Fobruary.		March.	Thrack	May.	Jane	July.	August	September.	October.	November,	December.	предоми.	Under 5.	5 to 10.		10 to 12.	15 to 20,	20 to 25.	.06 of 62	30 to 35.	35 to 40.	40 to 45.		45 to 50.	50 to 55.	55 to 60.	60 to 65,	.07 od 58	.07 of 07	72 to 80.	.1970 bna 08
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	Females	10	1	1	1	01	-	1		Н	0,	00	-	1	-	1	-	9	-	1	1	-	1		1	- ;	:	+	-	1	-	+	1	- 1	- (
	Total	36		01	=	01	10	10		4	-	01	50		12	-		61	1	-	10	4	01	- 1		_1	1	1	- 1	1		-	-	- 1	04
Isabella Males	Males	П	i		н	1	H	0.8		03		01	-	1	1	1	. ,	19	1	1	1	1	-	1	1	- 1	1	+	1	-		-	-	- 1	-
	Females.	83		Q1	1	-	4	6.0	-	-	80	i	69		10	-	-	71	-	-	80	00	1	1	1	1	+	1	1	1	1	1	- !		-
	[Total	77.2	77		15	27	27	17	80	56	85	88	21		20	88		III	10	11	10	13	00		6	10	10	00	00	6		91 61	12	7	10
to the second	Males	133		10	15	14	2	00	90	111	18	133	00		9	18		99	10	9	00	*	04		63	00	4	+	60	9		9 10	9	00	
Jackson		143		6	6	21	15	9	12	15	14	15	13		14	00	10	89	10	10	01	6	9		9	-	-	*	10	*	-	9 01	9	*	-
	Unknown	1	1	1	1	-	1	1	1	1	1		i	1	+	+	-	1	-	1	1	1	1	1		+	÷	÷	1	-	1	+	- 1	:	
	[Total	331	19		12	12	30	65	83	gT 9	45	33	83		53	30		118	6	œ	12	133	23		6	21	10	14	62	15		8 14	18	16	7
To lamous a	Males	117		6	15	==	18	16	15	11	54	22	13		21	14	17.	63	9	-	00	*	7			7	-	=	x	00	_	8	7	=	6
Alamazoo.	Females.	152	10	0	6	10	12	17	10	8	ã	1	=		=	16	-	70	80	*	7	6	16		-	10	00	00	10	7		4 5	-	0	00
	Unknown	61	1	1	1	1	1	-	1	1	1	i	-	1	-	+		61	1	1	1	1	1	1	1	1	:	+	T	1	i	1	1	1	1
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Kalkaska Males	Males	7	1	-	1	-	1	20		1	1		-	_	-	- :	-	9	1	1	1	1	1	1	1		-	1	1	-	1		:	1	-
	Females.	7			-	-		-	1	-	•	, E	_	_	_	-	_	- 2	-11	69		1		_	_	_	-	-				_	_	Ξ	- 1

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20 15 33 40	20 15 33 40	15 33 40	33 40	40	_	- 100	31	17	75	94	130	7		16	000	9	6	00			21	14	133	120	8	7
19 18 39 40	19 18 39 40	18 39 40	30 40	40			30	12	23	-	135	00	00	16	15	10	15	=		Q1	90	00	-	7	6 7	10
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9 4 0	9	9	10		*		9	g)	7	1	81	1	н	*	7	4	10	60	-	+	1	01	01	01	:	-
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1 2 3	01	01	1		60		-	1	i		00	1	Ħ.	1	1	F	-	1	7	-	+	1	-	-	1	7
	4	4	4		4		00	- 1	09		16	-	1	01	01	-	-	- 1	-	01	1	- 1	-	+	- 1	
01 01	61	61	-		01		-	- 1	H	1	00	1	1	01	1	1	1	1	7	-	1		i	÷		:
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8 5 19 15	5 12 15	5 12 15	12 15	315			13	12	10	1	43	9	60	-	1	-	69	#	-	01	10	*	00	9	64	10
2 13 4 8 16	80	80			16		11	*	10	1	36	10	10	-	00	7	00	7	10		-	01	9	9	60	00
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7 3 3	10	10	80		-		4	C.	10	1	17	64	-	-	80	-	04	4	-	C4	01	-	PO	63	-	G9
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5 3 1 1	7	7		-	1		00	8	-	1	0	01	1	-	-	-	-	60	7	H	64		-	-	1	-1
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9 21 15	9 21	9 21	21		15		10	17	13	43	53	1	1	63	*	03	09	90	10	-		*	-	12 12	11	=
5 10 11 14 26	11	11	7		56		18	17	12		21	10	10	+	9	1-	11		1+	9	10	9	00	=	6 5	12
15 16	15 16 25	16 25	8		61		93	11	11	-1	64	30	00	10	7		ino	1-	н	2	9	10	133	9 34	10	00
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01 41 40 0	-	*	-		10		o	ď	c		00	00	9	-	-	-	10	9	- 1	CT.	00	0	NO	00	60	60

TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age.

							Z	Моятив,	18, 1874.	zi.													Ages,	1874.							
COUNTIES.	SBX.	YEAR, 1874.	January.	February.	March.	April.	May.	Jane.	.xlut.	Auguak	September.	October.	November,	December,	Unknown,	Under 5.	2 to 10.	10 to 15.	15 to 20.	30 10 52	25 to 30.	30 to 32.	22 10 40	40 to 45.	45 to 50.	.50 to 55.	22 10 60.	.60 to 65.		1 65 to 70.	1 65 to 70. 1 70 to 75. 1 75 to 80.
	Total	16	-	09	03	1	01	01	1	1	-		01	-	01	7	F	24	-	4		i	1		7	1	- (1	
Mackinac Males	Males	9	1		н	-	1	7	1	1	-	-	-	1	-	1	H	,	1	-	1	1	1	-1	-	1	- [1	- 1		-
	Females	10	1	01	91	1	Ot		1	1	1		•	-	-	63	1	-	7	00	1	1	-	1	1	-	1	1	-1		1
	[Total	270	17	83	8	38	98	19	15	8	26	18	17	55	- 1	93	83	10	6	10	9	9	77	7	17	9	9	10	8		0
	Males	4	=	38	17	18	10	6	9	14	12	6	9	11	1	9	10	*	4	4	G.	1	*	64	00	2	01	7	10		-
Marcom D	Females	88	9	7	00	20	16	10	9	00	133	9	=	11	1	23	13	9	10	9	30	9	10	10	6	-	*	20	10		04
	Unknown	-	1	1	1	-	-	1	1	-	1	1	1	1	1	-	i	Ť	1	1	1	1	1	1	I	1	1	1	-1		+
	[Total	70	61	60	6	00	99	**	4		9	13		12	-	3	O.	01	-	*	G1	0.4	01	03	-	01	1	1	-1		01
Manistee Males	Males	88	1	-	*	20	-		1	*	9	04	4	9	-	5	H	01	1	-	-	1	m	01	-	7	1	- 1	11		- 5
	Females	37	0.9	01	10	1	+	04	60	00	-	10	60	9	1	53	+	1	-	00	-	Q1	-	1		-	-	1	- 1		68
	Total	a	1	01	-	1	- 1		-	1	-	-	-	1	- 1	1	-	-	Í	- 1	01	1	1	1	1	-	1	-	- 1		:
Maniton Males	Males	1.	1	01	-	1	1	i	1	-	- 1	-	1	- 1	i	1	-	H	1	1	F	i	T	1	1	-	1	-	- 1		-
-	Females.	Q1	1	-	1	i	1	-	-	1	1	1	-	1	1	1	1	1	1	1	-	i	- 1	Ì	1	1	i	1	- 1		+
	Total	3	13	21	16	8	21	18	83	2	8	57	18	30	-	148	77	10	6	=	51	12	13	*	-	*	00	*	63		60
Marquette Malos	Males	65	6	00	6	17	12	6	B	16	62	14	7	17	1	62	9		9	7	7	1-		91	4	04	-	63	60		01
	Females.	13	4	*	-	10	1-	6	0	18	1	=	11	133		69	00	-	00	4	10	00	9	Q1	-	69	64	1			=,

	Total	47	1		63	=			00	-		_		*	<u>;</u>	_	_		_				_	1	i	_			-	_	7	-
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	Females.	13	- 1		-	-	63	01	, 64	01	02	99	01		+	6		04	24		C1	-		1	-1	1	- 1			-	· ·	
_	Total	6.	_	_	9									10	;		-	- 00			10	-			**	- 1		1	01	- 1	64	00
Mecosta	Males	25			-		03	00	61	- 1	80	90	4	-	_	19	-	O1	01	C.	-			21	1	-	63	i	-1	:	04	-
	Females.	45	10		01	01		60		*		10			60		1	-			49	-			-	i	1	1	-04	1	1	01
Menominee Males	Males	01	- 1	- 1	1	1		:	1	-	1	-	H.	+	-	-	-	- 1	- 1	1	- 1	.:	- 11		1	:	76	1		- 1	1	- 1
	Total	45	61	-	- 7	-		01	9	-	90				10	-	1	- 1	1	99	- 1	-	-	.01	1			63	:	~	G.	
	Males	18			_			-	9	-	01	00	01	7	_	13	- 1	- 1	:	-		_		-		*	1	01	1	-1	1	
#Maland	Females.	83	-		1	-			-	-					00		-	- 1	3	C.	- 1	~			1			-	1	H	64	- 1
	Unknown	-	1	-1	:	1		1	1	1	1	1		1		1	1	+	1	1	1		4	4		- 1	1.5	•	-	1	1	-1
	[Total	60	- 1	- 4	- 1	-		1	1	- 1	1			-	- :	01	- 1	1	- 1	1	- 1				_ [1	- 1	- 1	- 1	-	·	- :
Missaukee Males	Males	01	1	-1		1		1	1	_	1	-		_4	- 1	04	- 1	:		1	٠	- 10	- 1	1	1	_		1	- 1		4	- 3
	Females.	-	1		1			1	1	1	1	1	1	1	1	1	1	1	- 1	1	1			•	1			!	1		÷	1
	[Total	262	13	16		_									- 1		11	10	15	77	1-							13		9		10
7	Males	149			2	98		14	-	10		16 16	9		2	13	*	9	6	9	01	00	10	60	-	*	*		6	10	-	60
Monroe	Females.	111	20	1-		_	_									_	7	7	9	00	9							13	_	40	-	н
	Unknown	04	1	1	1	1		1	-	1	-	-	1	1	1	01	14	- !	-1	1	1		1	1	i	= 1	1	1	;	i	1	:
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	Females	92	*	*					1.						1		*	60	60	10	9				*			ůε	-	-	69	1
	Total	170	10	-											;	85	10	23	90	10	4					10	*	-	*	9	-	4
	Males	86	9	9	4	90		00	t-	7	13	6 14		10	:	47	9	1	01	-	1	G1		6			01	-	-	60	1	4
инекедоп	Females.	83	-		-		-								_	37	*	G1	9	4	63		4	1	-		01	-	60	00	-	00
	Unknown	-	1	1	-	1	1	-	1	- 1	-	1	1	1	1	F	1	1	1	1	1	1	i	1	1	1	-1	;	1	i	+	1

TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age.

								Mon1	Montes, 1674	1874													-	AGE	A012, 1874.	ž								
COUNTIES	SW X.	Yea, 1874.	January.	February.	March.	April.	May,	June	July.	August,	September.	October.	Movember.	Десешрет	-	Unknown. I	2 10 10	10 to 12.	15 to 20.	0.00	20 to 25.	25 to 30.	30 to 35.	32 to 40.	40 to 45.	45 to 50.	,63 of 08		55 to 60.	60 to 65.	65 to 70.	70 to 75.	80 and over.	Unknown.
	Total	8	-	1 3		00		1 01	1 9		11.	1 10	1 6-	0	4	1 :	1 7 7	1 50	-	1 4	-	-	61	1	-	-		1 .	-	-	1 01		1 =	_
Newaygo Males	Males	88	-	1	64	01		01	9	-	01	01	93	7	03		13	01	- 1	01	н	٦	1	1	1	1	_1		п	*	04	64		61
	Fomales.	21	-1	63	-	-	1	-	-	-	9	10	*	01	-	7	-	-	-	01	Ť	1	Oil	1	-	-	-	+	1	1	1		1	G1
_	(Total	388	14	34	88	33		16	18 20		20	30	30	61	30	80	1 98	10	90	22	20	10	==	10	13	10		- 71	10	16	10	18	11 19	-0
Oakland	Males	158	100	9	=	8		7	13	11	14	16 1	9	0.	23	10	98	00	9	4	00	4	-		9		10	-	4	=	90	=	5 13	
	Females.	127	1-	90	H	7		12	10	9 1	10	14	18	10	00	1	8	01	C)	00	19	-	10	1	7		10	2	9	10	-		9	61
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Oceana	Males	43	64	13	4	01		80	-		1	=	00	63	.00		88	1		+	1	-	1	OI	_		-	-1	1	1	1	28	-	_
_	Females	46	:	OI.	-	G.		00	60	QI	9	=	- 00	çıs	60	01	56	-	-	H	C1	4	-	1	1	-	10	69	+	1	i	1	1	_
	Total	88	01	93	-	00	-	*	64	-	-	-	00		1	1	15		00	1	-	G1	1	-	-	1		:	- :	- 1	-	1	- 1	61
Ontonagon Males	Males	12	94	1	-	04	-	-	-	-	01	_	1	1	-	-	9		-	- 1	*	01	1	1	_	1		01	+	1	i		+	-:
	Females.	16	1	G1	-	-		00	-	89	01		60	-	-1	1	6		01	+	i	1	1	-	-	i		-	-	1	1	1	÷	69
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Osceola Males	Males	27	4	00	-	-	_	1	,	01	01	9	4	64	i	-	16	C#	-	01	00	1	1	1	į	-		-	-	1	- 1	4	1	_
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TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age.

								Mo	MONTHS,	, 1874.	4													Ac	AGES, 1874.	1874.								
COUNTIES.	SEX.	Yean, 1874.	Aconost.	February.	March,	April.	May.	-	June	July.	Angust	September.	October,	November.	December.	Unknown	Under 5.	2 to 10.	10 to 12.	.02 of GI	20 to 25.	25 to 30.	30 to 35.		92 10 10	,6b ot 0b	42 to 20°	20 10 22	00 to 60.	60 to 65.	.07 01 59	1 70 to 75.	.08 of 67	80 and over,
	(Total	158	10	9	=	7		50	11	1	11	50	10	10	7	;	29	13	9		7	10	4	9	9	10	*	00	NO.		9	01	60	9
- Contraction	Males	18	-	C1	10		- 2	121	6	10	=	=	*	10	-	1	60	7	69	94		53	- 65	4	21	00	4	63	64		60	-	01	01
THECOLA	Females	76	6	- 1	9	. 1	6 1	-	œ :	+ ;	9		9	01	9 1	1 1	28 -	9	* !	9	- 1	01 :	- 1	09 ;	+ 1	7	11	- 1	90	- 1	90 .	- :	7 1	# 1
	[Total	271	13	10	88	8		- 8	28	53	7	13	8	24	6	7	104	22	9	=	55		133	00	=	10	-	93	14	15	60	12	6	-
an Buren	Van Buren. Males	140	9	00	120	10	1	22	6	13	17	18	15	20	14	-	19	00	24	-	10	0	7	00	10	4	20	1	10	7	4	6	10	*
	Females	131		1-	10	16		10	6	10	11	17	2	13	9	1	53	6	-	1		10	9	10	60	9	01	64	4	-	7	4	*	07
	[Total	355	15	18	98	30		5	35	88	16	45	8	83	40	-	95	19	4	19	8		*	15	10	15	12	15	9	61	125	13	2	5
ashtenaw.	Washtenaw. Males	180	9	9	10	16		12	18	15	83	81	77	16	30	1	21	0	-	90	-	-	-	6	-	6	7	10	60		12	90	90	00
	Females	175	0	123	20	14		6	14	13	22	83	10	17	30	-	7	10	00	=	15		7	9	9	9	00	10	9		9 11	10	9	22
	Total	1,868	1117	88	144	101		146 1	2 711	201	330	175	163	162	169	4	826	8	48	99	101		18	- 12	22	48	69	70	20	70	0 46	35	8	99
	Males	1,036	62	47	86	87		83	61 1	12	611	86	92	90	90	60	447	9	33	25	8	_	6	88	88	39	69	43	81	#	\$ 33	88	13	57
Wayne	Females.	826	55	4	58	19		83	99	83	H	F	67	12	73	-	374	3	23	13	53		30	88	34	18	05	27	5	88	9 13	81	9	55
	Unknown	9	1	_	1	1	1	-	1	60	+		7	-	1	1	10	1	1	i	1	1	1	+	1	1	1	1	1	1	1	1	1	1
	Total	18		-	01	49	-	61	:	-	60	-	-	-	-	1	23	- 1	1	1	1		-	-	-	1	i	- 1	i	-1	-	H	1	- 1
Wexford	Males	9	1	1	-	. 1		-	4	-	m	-	-	1	1	. ;	9	1		1	1	1	-	1	1	1	1	1	1	1	!	1	1	T
	Females	13	1	-	-	10	100	-	-	1	01	-	1	-	1		9		1	1	1	_	-	-	1	:	i	1	1		-	-	:	-

The per cent. of white decedents to all decedents in 1874 is less than the per cent. of white inhabitants to all inhabitants in 1870, as shown by Table XI. A study of the last column of the table will show that the death-rate is less than the average among the white decedents, and more than the average among the Indians and among the African race, that among the Indians being the largest,—2.27 per cent.

TABLE XI.—Deaths in Michigan during the Year 1874, distinguishing the Color by Number and Proportion of each Sex, and by Sex, the Per Cent. of Deaths of each Color to Total of All Colors, and Per Cent. of Inhabitants of each Color to Total of All Colors, June 1, 1870.

COLOR.	SEX.	Population, June 1, 1870. a	Number of Deaths Returned for 1874.	Per Cent. of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females,	Per Cent. of Deaths of each Color to Total of All Colors, by Sex.	Per Ct. of Inhabit- ants of each Color to Total of All Colors, by Sex, June 1, 1870. a	Death- rate,— Per Cent. of Deaths in 1874 to Population in 1870.
	Total	1,172,182	12,500			100,00	100,00	1.07
55 de 2000 - 1	Males	611,573	6,665	58.45	114.83	100,00	100.00	
All Colors	Females.	560,609	5,804	46.55		100,00	100.00	
	Unknown		31					
	Total	1,156,377	12,203			97.62	98.65	1.06
act :	Males	603,354	6,505	53,42	114.66	97.60	98.65	
White	Females.	553,023	5,673	46,58		97.74	98.65	
	Unknown		25			80.64		
	Total		93			.74	.47	1.69
Black	Males	3,042	48	51.61	106,67	.72	.50	
	Females.	2,469	45	48,39		.78	.44	
	Total	6,197	40			.32	.53	.65
Mulatto	Males	3,126	21	52,50	110,53	.32	.51	
	Females	3,071	19	47.50		.33	.55	
	Total	4,097	93			.74	.35	2.27
Indian	Males	2,051	49	52.69	111.36	.73	.34	
	Females	2,046	44	47.31		.76	.36	
	Total		71			.57		
	Males		42	64.62	182,61	.63		
Unknown	Females.		23	35.38		.39		
	Unknown		6			19.36		
	Total	11,708	133			1.06	1,00	1.14
Black and Mulatto	Males	6,168	69	51.88	107.81	1.03	1.01	
	Females	5,540	64	48.12		1,10	.99	

[•] Population represented by returns of deaths in 1874.

TABLE XII.—Exhibiting. by Number

		4	having Died in	Died in		chigan	Michigan during	g the	Year	r end	ing .	ending December 31, 1874.	ıber	31,	187,	ا بي					.
STATE	<u> </u>	ALL COLO	Colors, 1874.			WHITE	pi		1	BLACK.		Mt	Mulatio.	Ġ	Ą	INDIAN.		ά	UNKNOWN.	, <u>, , , , , , , , , , , , , , , , , , </u>	
AND COUNTIES.	Total.	Males.	Femalos.	Unknown.	Total	Males	Femalon	Опквожв.	JaioT	Males	Femalos	LetoL	Males.	Females	.fatoT	Malon.	L'emales.	Total.	Males	Females.	Unknown.
STATE	12,500	6,665	5,804	31	• 12,903	6,506	5,673	ង	8	3	3	\$	55	9	88	3	#	12	84	្ត	1
Alcona	=	••	1	-	F	•	-	-			İ						 	 		$\dot{\parallel}$	1 :
Allegan	311	174	187		908	2	138			<u> </u>		61	61	1	-	-	-	<u> </u>	$\frac{\cdot}{1}$	i	- :
Alpena	23	2	13	-	22	2	21			<u> </u>	i			i	i	i	-	-	-	i	:
Antrim	23	ន	2		22	81	2	i		<u> </u>	i	i			-	-	-	$\frac{\cdot}{1}$	+	- 	•
Baraga	9	•	•		2	•	4	-		-	i	1		i	i	<u> </u>	<u> </u>	-	- i	<u> </u>	:
Barry	8	38	8	_	8	18	28	-		:	i	i		İ	i	-		<u> </u>	$\frac{\cdot}{1}$	- i	- :
Вау	200	157	113		243	83	100	-	69	-	Ī	i	i	Ī	9	89	**	:	$\frac{\cdot}{\cdot}$:
Benzie	8	7	2	l	8	7	et et	_		-	i	i		i	i		<u> </u>	<u> </u>	+	i	- 1
Berrien	8	212	178		8	218	124		61	-	-	-	-	_	$\frac{\cdot}{1}$	-	<u>:</u>	<u>:</u>	÷	_ <u>;</u>	:
Branch	923	1	8	-	818	711	ğ	_	:	i	-	_	-	_	i	-	<u> </u>	<u>:</u>	$\frac{\cdot}{1}$	<u>:</u>	:
Calhoun	300	31	146		8	153	146	1	69	-	-	i	1	i	i	:	<u> </u>	<u>;</u>	÷	$\frac{\cdot}{\cdot}$	- 1
Cass	141	92	8		133	22	8	-	•	89	90	83	-	69	-	<u> </u>	- <u>:</u>	-: -:		$\frac{\cdot}{1}$	•
Charlevoix	2	۰	SI		92	6	6			$\dot{\parallel}$	-	-	-	-	63	-	<u>;</u>	-	-	$\frac{\cdot}{1}$	Ì
Cheboygan	*	22			2	=	9	-	-	<u> </u>	i	_		-	•	4 J	- -	-	$\frac{\cdot}{1}$	÷	:
Ohippewa	•••	9	**		10	7	1	-		<u> </u>	i	i		-	89	4 J	; 67 9	$\frac{\cdot \cdot}{1}$	-	i	•
Olare	88	91	18	i	88	91	21	Ī		i	İ	<u>-</u>	Ì	i	$\frac{\cdot}{1}$	<u> </u>	<u>:</u>	$\frac{\cdot \cdot}{\mid \cdot \mid}$	$\frac{\cdot}{1}$	÷	
Olinton	81	200	20	-	த	108	8	-		i	-	-	:	_	i	i	<u>:</u>	$\frac{\cdot}{1}$	÷	i	
Dolta.	2	- -	22		87	81	91			_	i	1	_	_	21	41	<u>-</u>	╡	-	$\frac{\cdot}{1}$	i

Katon	*	146	88	1	2	146	88	=	İ	i	<u> </u>	i	i	i	İ	<u> </u>	ī	-	Ī	1	i
Emmet	31	8	=		•	-	_	i	i	i	-	i	i	-	88	• 18	2	-		$\frac{\cdot}{\parallel}$	i
Genesee	8	811	5		8	119	9	i	i	i	<u> </u>	-	i	-	i	-	-	<u> </u>	-	$\frac{\cdot}{1}$:
Gladwin			-	i	_		-	i	i	i	-	i	i	-	i	÷	i	<u> </u>	i	<u>:</u> :	1
Grand Traverse.	28	2	8		22	ş	8	Ì	i	i	i	-	i	i	i	<u> </u>	-	61	61	<u> </u>	i
Gratiot	187	8	8	i	121	8	28	Ì	i	i		i		i	i	i	i	-	-	<u> </u>	:
Hillsdale	នីរ	118	8	69	81	113	90	01	i	i	i	i	i	-	i	i	i	<u> </u>	i	-	:
Houghton	§	134	16		81	134	2	i	i	i	$\frac{\cdot}{1}$	i	i	i	i	i	- <u>†</u>	i	<u> </u>	+	1
Huron	111	19	\$	-	===	19	3	-	÷	Ì	- 	i	Ť	i	i	i	i	$\frac{\cdot}{1}$	$\frac{\cdot}{1}$	<u>:</u>	:
Ingham	\$	136	191		8	134	8	Ī		_	i	i	i	i	i	i	-		i		:
Ionia	***	147	2	-	255	8	88	Ì	i	i	$\frac{\cdot}{i}$	i	i	i	i	$\frac{\cdot}{1}$	-	2	18	33	i
Iosco	8	92	오		88	2	2	Ì	i	i	-	i	Ì	i	i	i	<u>:</u>	$\dot{\parallel}$		$\frac{\cdot}{\parallel}$	į
Isabella	*	=	Ħ		8	60	22	Ì	Ì	i	-	i	i	-	•0	61	83	61	-	-	į
Jackson	E.	22	35	1	274	380	3	-	61	67				i	i	i	i	i	i	<u> </u>	;
Kalamazoo	158	171	52	69	317	178	¥		Ħ	*	1				i	<u> </u>		01	i	-	64
Kalkaska	7	-	-		*	2	-	Ì	i	i	+	i	i	i	i	i	-	-	$\frac{\cdot}{i}$	+	:
Kent	88	88	8	-	574	282	88	_	•	20	64	_	_	-	-		-	•	-		8
Keweenaw	8	8	7		8	8	*	i	i	÷	i	i	i	İ	i	i	:	-	i		:
Lake	8	52	*	-	22	55	=	i	i	i	<u> </u>		i	<u> </u>	i	-	i	-	<u> </u>	:	:
Lapser	ន្ត	118	20	-	22	118	26		i	i	i	i	i	i	i	i	$\frac{\cdot}{1}$	<u> </u>	-		;
Leelanaw	3	81	8		\$	82	81	i	i	i	-	-	_		ю	•	69		$\dot{\parallel}$	-	:
Lenawee	988	168	191		85	162	8			i	-	01	-		i	<u> </u>	$\frac{\cdot}{1}$	i	$\frac{\cdot}{1}$	<u>:</u>	:
Livingston	88	88	8	:	35	88	8	i	i	i	<u> </u>	<u> </u>	i	i	i	i	i	i	i	+	:
Mackinac	2	•	2		23	9	3	i	i	i	$\frac{\cdot}{1}$	i	i	-	÷	-	-		-	-	į
Macomb	230	=	88	_	**	3	127	_		Ī	-	Ť	Ť	Ť	$\dot{\parallel}$			$\dot{\parallel}$	$\frac{\cdot}{\parallel}$	$\stackrel{+}{\parallel}$	1
al male, 4 females "Light" 6 males, 7 females "C	es "Ligh	ht." Colored," and 1 female	and 1	female	-	6 males, 6 females "White and Indian," I female "French and Indian." "White and Indian."	femal French fre	ch and	7hite s	ind In	dian,"	pug	. MA	3 "Colored." 4 "Colored." "French and Indian."		ndian.					
)							

TABLE XII.—Continued.—Deaths by Counties, by Color, and by Sex.

		7.1.	TABLE	ALL.		TINUI	.—CONTINUED.—Leaths	earns	og	Counties,		oy CC	Cowr,	ana	og fo	Dex.					1
	Au		Colors, 1874.			WHITE	pi.		A	BLACK.		N.C.	Mulato.	<u> </u>	ĄĮ	INDIAN.		Δ	Тикио w и	W.N.	
COUNTIES.	.latoT	Malon	Females	Пакаома	LatoT	Malon	Females.	Опкроwп.	Total	Malos.	Females	JatoT	Malon	Females.	JasoT	Malon,	Femalon	JatoT	Malon	Femalos	Пакаожа.
Manistee	٤	22	22		٤	22	22														
Manitou	٥	7	ø	-	۰	-	•		i	-	$\frac{\cdot}{1}$	i	<u>-</u>	i	-	<u> </u>	<u>:</u>	-	<u>-</u> ;	Ť	į
Marquette	ផ្	149	113	-	ន្ត	9	911	1	i	<u> </u>		••	61	-		-	-	$\dot{\parallel}$	i	Ť	į
Mason	2.9	88	2	-	8	N	92	1	<u> </u>	- 	i	i	i	•	80	10	∞	Ť	i	i	į
Mecosta	٤	*	\$	-	۾	ž	\$	-	i	<u> </u>	i	$\frac{\cdot}{1}$	i	İ	i	i	<u> </u>	i	i	İ	į
Menominee	•	•			69	•			i	1	<u>:</u>	i	i	i	i	<u> </u>	i	i	i	Ì	:
Midland	43	22	83	-	\$	81	83	F	i	-	i	i	i	i	i	<u> </u>	i	i	i	Ī	;
Missaukee	••	8	-		•	64	-	-	i	-	i	i	Ī	i	İ		i	i	$\dot{\parallel}$	Ī	i
Monroe	\$	350	111	69	\$	160	111	61	i	<u> </u>	i	<u> </u>	1	İ	i	i	i	i	$\dot{\parallel}$	Ì	:
Montcalm	161	8	8	:	181	8	83	-	i	- -	i	- †	i	İ	İ	<u> </u>	i	-	i	- <u>†</u>	:
Muskegon	170	88	88	-	51	88	8	~	:	-	_	<u> </u>	Ī	i	i	<u> </u>	i	i	i	1	:
Newaygo	8	8	81	:	25	88	81	-	-	-	i	i	İ	-	i	i	i	i	<u> </u>		i
Oakland	8	921	127	-	8	155	120	;	10	••	09	i	i	-	i	i	i	i	-		1
Oceana	8	3	\$:	88	\$	\$		•	-	i	i	i	1	-		-	Ť	i		:
Ontonagon	8	22	2	-	88	2	96	Ī	i	<u> </u>	i	i	i	i	i	i	$\dot{\parallel}$	$\dot{\parallel}$	- †		į
Osceola	8	13	8		\$	2	81		-	-		i	i	i	i	i	i	i	i		į
Ottawa	84	167	181		£	191	88	i	•	60		i	Ì		61		61	$\dot{\parallel}$	i		i
Presque Isle	•	*	**	i	*	**	**	Ì	i	-	$\dot{\parallel}$	i	i	i	i	i	<u> </u>	i	i	Ī	į
Bagina w	25	88	27.5	i	2	7	8		*	69 .a	-	i	i		91	2	•	$\dot{\parallel}$	i	-	į
Sanilae	8	2	19	-	2	8	15	Ī	i		i	i	i		-	-	i	$\dot{\parallel}$	i	1	į
Schooleraft	8	==	•	_	*	=	•	Ī	i	_	i	$\frac{\cdot}{1}$	i	_	•	-		$\frac{\cdot}{1}$	i		:

Shia wassee	86	2	28		168	81	\$6		Ī	Ī	-	Ī	Ī	İ	Ť	÷	Ī	-	<u></u>	Ī
St. Clair	3	8	25	*	328	8	33	61				•	01			Ī		-	i	
8t. Joseph	28	107	8		196	8	8			Ī				Ť	Ť	i		=	2	-
Tuscola	25	18	92	-	158	8	92	_						Ī	i	Ì				
Van Buren	221	140	181		285	98	83		69	1 4	7	83		**	_		_			1
Washtenaw	355	180	175	i	350	Ħ	178		4	01	61	-	-		Ì	i			Ì	
Wayne	1,868	1,036	86	•	1,797	200	ĕ	80	2	2	b 21	9	0	-	i	1	i	22	۰	-
Wexford	2	•	13		85	•	81						Ī	Ť	Ť	i		1		
					-	-					•	•	•		•	-				

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factory, because the proportion of the native and foreign-born inhabitants is so different at different ages. The native-born population includes nearly all the children, among whom the mortality is very great, whereas the foreign-born inhabitants Any statement of the death-rate by nativity, based upon the total population and the total number of deaths, is unsatis-To avoid the erroneous impression made by stating the total death-rate by nativity, by sex, as is done in Exhibit 6, following, Exhibit 1 was made, which shows the death-rate by nativity, by sex, based upon the population of Michigan in 1870 and the deaths in 1874, by ages and periods of age, in years. are chiefly of the middle ages.

e 1 White and Indian.

b 1 "Colored."

a 1 "White and Indian."

the death-rate was larger among the males of the foreign-born, and among the females the death-rate was the same of the native as of the foreign-born. Then taking a larger view of the subject, the teaching of this exhibit is that, during the first By this exhibit, it appears that at each age under ten years, the death-rate was greater among the native-born of both born of both sexes; between the ages of ninety and one hundred years, the larger death-rate among the males was of the thirty years of life, the death-rate in Michigan was greater among the native-born, but after that period, the death-rate was arger among the foreign-born inhabitants. The average death-rate of the seventeen periods of age was greater among the sexes; between the ages of ten and fifteen years, the greater death-rate was among the foreign-born of both sexes; between the ages of fifteen and thirty years, the greater death-rate was among the native-born of both sexes; between the ages of thirty and forty years, the greater death-rate among the females was of the native-born, and among the males, the greater death-rate was of the foreign-born; between the ages of forty and ninety years, the larger death-rate was among the foreignnative-born, and the larger death-rate among the females was of the foreign-born; at the age of one hundred years or over, males of the native-born, and among the females of the foreign-born.

EXHIBIT 1.—By Nativity and Sex, and Periods of Age, the Number of Inhabitants of Michigan, June 1, 1870, the Number of Deaths to 100 Living.

	INHAI	Inhabitants of Michigan, June 1, 1870.	OF MIC	HIGAN,	IUME 1,	1870. a	DR	DEATHS IN MICHIGAN IN 1874.	N MIC	нюм	IN 187		No. of		LATH-	14 TE:	DEATH-RATE: DEATHS TO 100 LIVING.	.
AGES IN YEARS AND PERIODS.	ALL NA	ALL NATIVITIES.	NATIVE	IVE	FOREIGN.	10%.	ALL Nativities, b	, E	NATIVE.	78.0	FOREIGH.	1	ALL Nativities.	ä	NATIVE	٠,	FOREIGN.	, l
	Malor.	P P	Kalos	Fe. males.	Malos.	Ye. males.	Kalos	Pales.	Malos.	Fo.	Malos	Fo.	A SE	Fe. malos.	Malon	Te.	Malos	Fe. malea
Total	817,745	564,314	180'001	447,015	148,711	119,299	6,963	5,804	5,948	639,	1,178	90	1.08	1.02	1.12	76.	٤.	8.
Under 1	16,68	15,990	16,455	15,802	35	8 8	1,907	1,436	1,874	1,408	=	•	11.46	86	8.1	88	88.	3. 19
1	16,243	15,760	15,839	115,877	\$	8	\$	\$	\$	8	8	80	9. 18.	89	28.80	25	1.49	3 .08
	17,488	16,672	16,794	16,017	š	3	214	88	흃	181	-	9	31	1.13	1.21	1.13	1.01	8
89	16,928	16,947	16,030	16,000	8	878	22	9	8	3	9	80	٤.	. 8	8.	.87	z;	ಷ
•	16,146	15,380	15,019	14,275	1,127	1,114	113	8	호	8	-	••	8	3 .	8	29:	g.	23.
5 to 10.	73,863	72,201	66,855	84,49	8,088	7,708	821	273	8	2	8	2	¥.	88	3	9	81	6.
10 to 15	71,649	88,846	62,066	60,275	8,964	8,571	188	176	151	163	22	क्ष	8	8.	¥	ģ	8	8.
15 to 20	112,00	80,00	49,487	48,815	10,734	10,283	g	器	8	83	28	8	8	ક્	8	9	ĸ	.47
20 to 30	113,016	108,201	76,276	75,617	36,740	18 '83 184	8	6	ŝ	29	98	88	‡	.61	á	19:	×.	9 .
30 to 40	82, 193	74,941	50,931	9,340	32,261	25,601	873	28	86	818	3	191	3.	6	×	¥.	Ŋ.	S.
40 to 50	00,747	80,569	36,037	32,254	94,710	18,315	8	3	217	8	88	超	8	8	8	ş	.76	86
90 to 60	40,508	30,872	28,286	20,921	14,510	196'6	\$	82	97	ş	200	911	1.14	8.	8.	.93	1.30	1.11
60 to 70	21,381	17,916	14,731	12,033	6,590	5,184	3	3	8	213	175	28	265	2.03	8	1.71	2,66	2.43
70 to 80	8,021	6,365	5,663	4,577	2,358	1,788	3	8	88	8	83	켳	5.53	4.85	6.00	4.15	99	5.93
80 to 80	1,576	1,401	1,146	1,048	3	93	174	162	116	91	3	3	11.04	_	10.19	10.56	12.33	12.53
90 to 100	3	25	ま	91	28	8	8	8	8	21	•	2	18.06	27.78	91.28	33.08	12.00	87.14
100 and over	2	Ħ	6.	유	-	2	*	8	61	*	01	61	8.8	2 08	81	60.00	28.67	\$ 00
Unknown ages	-	10	•	~	69	61	¥	8	2	22	*	23	÷	i	i	i	Ť	
Average of 17 Periods of Age													83	1 3	8	1 12	3	3
												_	_	_	_	_	_	

• From Tables XXIII, XXIV., and XXV., Volume II., Ninth U. S. Census, 1870. B Excleding 31 unknown sex, and including 250 males, 186 females, and 1 unknown sex, of unknown nativity. • Excluding 30 unknown sex.

Exhibit 6 shows, by sex, the number of deaths returned for each of the years 1870-1874, the number of inhabitants, June 1, 1270, represented by the returns of deaths for the respective years, and the per cent. of deaths to population. It appears by this exhibit that the death-rate was greatest in 1873. and least in 1871; the order of the years, for all nativities, greatest number first, is: 1873, 1.213 per cent.; 1872, 1.155 per cent.; 1874, 1.066 per cent.; 1870, .933 per cent.; 1871, .851 per cent. In consequence of using the population in 1870 in computing the death-rate for each year, the death-rate as shown for each year is probably too high; and the farther the year is away from 1870, the greater will be the error, inasmuch as no allowance is made for increase of population.

In each year the highest death-rate is among the native-born, as shown in exhibit 6; but it should be borne in mind that the native-born include all the still-births and a large proportion of the children among whom the death-rate is always large, whereas the foreign-born population of the State is largely composed of middle-aged persons.

Among the native-born the death-rate is greater among the males, than among the females, for each year; and among the foreign-born, the death-rate is greater among the males for each year except for 1874, when it is slightly greater among the females.

EXHIBIT 6.—Nativity of Decedents in Michigan during the Years 1870 to 1874, inclusive, showing the Relation of the Native and Foreign-born to the Native and Foreign-born Inhabitants, June 1, 1870.

	NATIVE	AND FORES	an.Bonn	1	DECEDENT	s in 1870), 1871, 1	872, 1878,	AND 187	4.
NATIVITY OF DECEDENTS AND OF	POPULATION RESENT	C, JUNE 1, ED BY RETU N THE GIVE	1870, MEP-	Year.		Number	•	TO PUPE	T. OF DEC	SAME
INHABITANTA	Total.	Males.	Females.		Total,=	Males.	Fo- males.	Total.	Males.	Fo- males.
All Nativitiesb	1,153,868	600,806	552,562		10,766	5,589	5,140	.933	.930	.930
Native	902,189	461,963	440,206	1870	8,804	4,525	4,258	.975	.979	.960
Foreign	251,199	138,843	112,856		1,609	893	716	.640	643	.637
All Nativitiesb	1,148,453	595,556	547,897		9,728	5,190	4,503	.851	.871	.822
Native	892,197	456,652	435,545	1871	7,759	4,074	3,655	.870	.892	.839
Foreign	251,256	138,904	112,352		1,608	927	681	.640	.687	.606
All Nativities	1,158,055	603,914	554,141		[18,371	7,182	6,162	1.155	1.189	1.112
Native	900,889	461,307	439,582	1872	10,812	5,647	5,188	1.200	1.224	1.169
Foreign	257,166	142,807	114,559		2,146	1,303	843	.884	9.14	.736
All Nativitiesb	1,175,781	613,327	502,404		14,258	7,651	6,590	1.218	1.247	1.179
Native	912,747	467,469	445,278	1873	11,602	6,159	5,496	1.271	1.818	1,219
Foreign	262,984	145,858	117,126		2,340	1,805	1,035	.890	.895	.884
All Nativities	1,172,182	611,578	560,609		(12,500	6,665	5,804	1.066	1.090	1.085
Native	909,846	465,970	448,876	1874	9,937	5,248	4,659	1,092	1.106	1,050
Foreign	262,336	145,603	116,738		2,128	1,178	950	.811	.109	.814

<sup>Includes unknown sex.
Includes decedents of Unknown nativity.</sup>

TABLE XIII.—Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of All Returned as having died in Michigan during the Year ending December 31, 1874.

STATE	ALL	Nativi	TIES, 18	74.		Nati	YE.		1	Forkign	ı .		Unki	own.	
AND COUNTIES.	Total	Males.	Fe- males.	Unk	Total.	Males.	Fe- males.	Unk	Total.	Malos.	Fe- males.	To- tal.	Males.	Fo- males.	Unh
STATE	12,500	6,685	5,804	81	9,937	5,248	4,659	30	2,128	1,178	950	435	• 239	b 196	7
Alcona	11	8	7	1	7	2	4	1	2		2	2	1	1	
Allogan	311	174	187		255	145	110		56	29	27				 .
Alpena	32	19	18		19	9	10		11	9	2	2	1	1	
Antrim	33	23	10		28	20	8		5	8	2	 -			 .
Baraga	10	6	4		7	4	8		8	2	1				
Barry	195	105	89	1	169	92	76	1	21	12	12	2	1	1	
Bay	250	137	118		199	110	89		45	94	21	6	3	8	
Benzie	26	7	19		22	4	18		2	1	1	2	2		
Berrien	395	219	176		833	186	147		52	28	24	10	5	5	
Branch	220	114	105	1	199	104	94	1	16	9	7	5	1	4]
Calhoun	800	154	146		262	181	181		29	16	18	9	7	2	 .
Cass	141	76	65		130	70	60		6	4	2	5	2	8	 .
Charlevoix	21	9	12		16	7	9		5	2	3				
Cheboygan	24	12	12		21	10	11		2	1	1	1	1		
Chippewa	8	5	8		6	8	8		2	2					 .
Clare	28	16	12		23	18	10		4	2	2	1	1		 .
Clinton	195	103	91	1	168	85	82	1	23	15	8	4	8	1	
Delta	39	23	16		29	18	11		7	3	4	3	2	1	ļ
Eaton	236	146	89	1	218	140	77	1	13	6	7	5		5	 .
Emmet	31	90	11		29	20	9					2		2	
Genesee	• 220	119	101		198	107	91		22	12	10				
Gladwin	1		1						1	 	1		 		ļ
Gr. Traverse	35	15	20		27	11	16		8	4	4	 			
Gratiot	127	65	62		119	59	60		5	8	2	3	3]
Hillsdale	221	113	106	2	185	95	88	2	22	12	10	14	6	8	J
Houghton	225	184	91		158	89	69		62	41	21	5	4	1	 .
Huron	111	61	49	1	77	89	37	1	84	22	12	. 		ļ	
Ingham	262	135	127		229	120	109	 	25	10	15	8	5	8	
Ionia	286	147	139		253	127	126	ļ	23	12] 11	10	8	2	 .
Iosco	26	16	10		17	9	8	 	6	4	2	8	8	ļ	
Isabella	36	11	25		89	9	23	ı	3	2	1	1		,	 .
Jackson	277	133	143	1	255	121	133	1	21	11	10	1	,		ļ
Kalamazoo	331	177	152	2	276	148	196	2	52	28	24	3	,	2	
Kalkaska	14	7	7		14	7	7	[1	}				j

^{*1&}quot;America." b4"America."

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

	ALL	NATIVI	ri ns ,18	74.		NATI	VE.		1	or eign	•		Unki	own.	
COUNTIES.	Total.	Malos.	Fo- males.	Unk	Total.	Males.	Fo. males.	Unk	Total.	Males.	Fe- males.	To- tal.	Malos.	Fo- males.	Unk
Kent	586	298	289	4	474	229	241	4	97	59	88	15	5	10	
Keweenaw.	58	39	14		28	15	8		94	19	5	6	5	1	
Lake	26	18	14		19	10	9		δ	1	4	2	1	1	ļ
Lapeer	224	118	105	1	178	92	80	1	44	21	93	7	5	2	ļ
Leelanaw	46	22	24		33	17	16		12	5	7	1		1	ļ
Lenawee	830	163	167		800	147	153		27	14	18	8	2	1	ļ
Livingston	188	98	90		157	81	76		28	16	12	8	1	2	ļ
Mackinac	16	6	10		14	5	9		2	1	1		 -		ļ
Macomb	270	141	128	1	214	115	98	1	55	25	80	1	1		
Manistee	70	33	87		52	25	27		18	6	7	5	2	8	
Manitou	9	7	2		8	8	 		6	4	2				
Marquette	254	142	112		187	97	90		67	45	22				
Mason	47	28	19		39	93	17		6	5	1	2	1	1	
Mecosta	79	84	45		67	27	40		10	6	4	2] 1	1	
Menominee.	2	2			2	2	 -			 -	 -	}	ļ		
Midland	42	18	28	1	36	17	18	1	8	1	4	1		1	
Missaukee	8	2	1		8	2	1					ļ			ļ
Monroe	262	149	111	3	213	117	94	2	46	30	16	8	2	1	ļ
Montcalm	191	96	95		165	84	81	••••	93	11	12	3	1	2	
Muskegon	170	86	83	1	197	68	63	1	88	18	15	10	5	5	ļ
Newaygo	50	28	22		48	26	22		1	1		1	1		ļ
Gakland	285	158	127		236	124	112		40	29	11	9	5	4	 -
Oceana	85	48	46		75	88	87		11	4	7	3	1	2	
Ontonagon	28	12	16		90	9	11		8	8	5				ļ
Osceola	50	27	23		42	23	19		7	8	4	1	1		
Ottawa	298	167	181		231	183	98		58	30	28	9	4	5	
Presque Isle	6	8	8		5	2	8		1	1					
Saginaw	· 568	293	275		401	218	188		88	46	42	79	84	45	ļ
Sanilac	160	93	67		100	63	. 37		57	28	29	3	2	1	
Schoolcraft.	90	15	5		17	12	5		2	2		1	1		
Shiawassee	168	81	87		150	72	78		16	8	8	2	1	1	
St. Olair	855	202	150	8	248	135	110	3	102	63	39	5	4	1	
St. Joseph	207	107	100		178	93	85		26	18	18	3	1	2	
Tuscola	158	81	76	1	125	61	63	1	30	18	12	3	2	1	
Van Buren	271	140	131		250	124	126		17	12	5	4	4	•	
Washtenaw.	855	180	175		290	146	144		62	33	29	8	1	2	
Wayne	1,868	1,036	826	6	1,294	684	535	5	506	268	238	138	▲ 84	> 53	1
Wexford	18	6	12		16	6	10		2		2				

^{• 1 &}quot;America." • 4 "America."

CAUSES OF DEATH.

The same classification was used in the compilation of the deaths in Michigan in 1874 as has been heretofore used in this State; and a comparison of the classes for the different years is therefore instructive. This comparison is facilitated by the use of Table XIV., which is similar to the corresponding tables for previous years, and shows, for each of the years 1869-1874, the number and per cent. of total deaths returned as having occurred from each class of causes of death. An examination of Table XIV. shows that the proportion of deaths from causes included in Class I.—Zymotic Diseases—is less in 1874 than in any previous year. Cholera Infantum, Diarrhea, Diphtheria, Dysentery, Typhoid Fever, Scarlet Fever, and possibly one or two other causes of death, are the controlling diseases of this class, and a decrease of the proportion of deaths from this class of causes would naturally be attended with a similar decrease in the proportion of deaths of children among whom these diseases are principally fatal. Such a decrease is noticed, as it was stated in our remarks upon Table IV., page 125, that the proportion of deaths of persons under five years of age was less in 1874 than in any previous year except 1871, in which year the per cent. was slightly smaller than in 1874; it may also be seen in Table XIV. that in this exceptional year, 1871, the proportion of deaths from Zymotic Diseases was less than any other year except 1874, and the nearest to 1874 of any of the other years. The largest proportion of deaths in 1874 was from causes included in Class III. -Local Diseases-being 29.58 per cent. of the deaths from all causes; this is a larger proportion from this class than for any previous year except 1873; the particular diseases included in this class may be seen by turning to the table of diseases classified, on a following page. Inflammation of the lungs and "lung disease" contributed largely to the increased death-rate from Class III. in 1874. The proportion of deaths from causes included in Class II.—Constitutional Diseases—is less in 1874 than in 1869, 1870, or 1871, and more than in 1872 or 1873; the proportion from Class IV.—Developmental Diseases—and Class V.—Violent Deaths—is greater in 1874 than in any year except 1871; and the proportion from Unknown and Unclassified is greater in 1874 than in any year except 1869.

TABLE XIV.—Number of Deaths Returned as having Occurred in Michigan from All Causes, and from each Class of Causes, and Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1869 to 1874, inclusive.

CAUSES OF DEATH,-	18	39.	187	70.	18	71.	187	12.	187	78.	187	74.
CLASSES.	Num- ber.	Per Ct. of Total.	Num- ber.	l'er Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total
All Causes	9,145	100,00	10,766	100.00	9,728	100.00	13,871	100.00	14,258	100,00	12,500	100.00
1Zymotic Diseases	2,513	27.47	3,429	31.85	2,642	27.16	4,399	32.90	4,027	28,24	3,260	26.00
IL—Constitutional Dis-	1,734	18,96	2,072	19.24	1,852	19.04	2,146	16.05	2,207	15.48	2,117	16.90
IIILocal Diseases	2,334	25.52	2,699	25.06	2,619	26.92	8.762	28.14	4,565	32,02	8,697	29.50
IV.—Developmental Diseases	814	8,90	840	7.80	1,002	10.30	1,063	7.94	1,162	8.15	1,256	10.00
VViolent Deaths	468	5.11	496	4.50	539	5.54	541	4.04	685	4,80	656	5.9
Unknown and Unclassified	1,282	14.01	1,931	11.48	1,074	11.04	1,460	10.93	1,612	11.81	1,514	12.1

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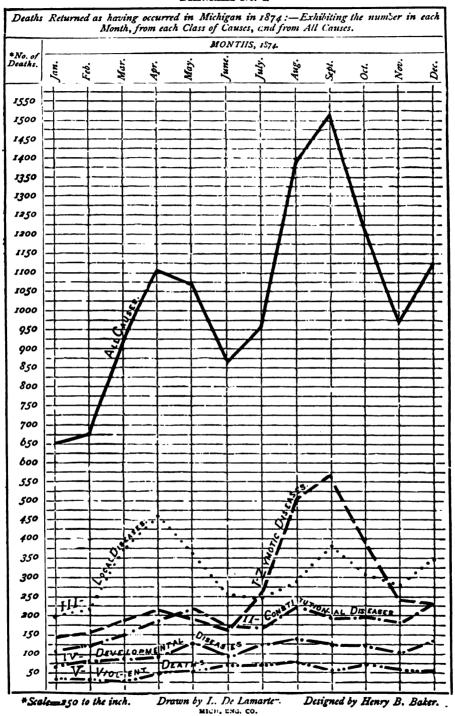


Exhibit 7 shows, by months of the year 1874, the number of deaths returned as having occurred from all causes, and from each class of causes, and is valuable in showing the seasonal variations of mortality from the different classes of causes of death in Michigan. The data contained in this exhibit are graphically represented in Diagram No. 4, opposite this page, which facilitates the study of this subject.

The great rise in April of the line representing deaths from all causes is mainly due to Class III.—Local Diseases—and the rise in August and September of the line representing all causes is mainly due to Class I.—Zymotic Diseases—although the line for Class III. rises somewhat in those months. Classes II., IV., and V. are quite uniform throughout the year, each one showing a general gradual rise from January to December. This is probably due to the more complete and thorough enumeration of the deaths for each month approaching the end of the year, as the time which has elapsed between the occurrence and the enumeration of the deaths diminishes. From this diagram it will be seen at a glance that the mortality in Michigan in 1874 was largely governed by the Zymotic and Local diseases. Excluding the unknown and unclassified, 68.60 per cent. of the deaths in August and September combined were caused by zymotic and local diseases; and of the deaths in April, excluding the unknown and unclassified, 46.16 per cent. were caused by local diseases alone. Further on it will be seen that, of the local diseases, pneumonia was unusually fatal in April, 1874, as shown by Diagram No. 9; and the meteorological conditions with which this fatality was associated were a low temperature—as shown by Diagram No. 6, unusually dry air—as shown by Diagram No. 7, very high pressure of the atmosphere—shown by Diagram No. 8, and a very considerable excess of ozone—shown by a manuscript diagram used for study, but not published in this Report.

EXHIBIT 7.—By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes, and from each Class of Causes, for the Year 1874.

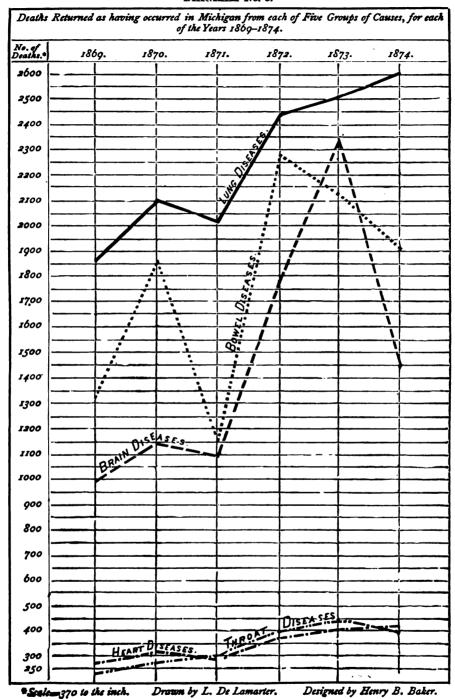
CAUSES OF DEATH,-	YEAR,					Mo	NTHS	OF	DEAT	гн, 187	4.			
CLASSES.	1874.	Jan.	Feb.	Mar.	Apr.	M'y.	J'ne.	Jly.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
All Causes	12,500	655	672	919	1,102	1,071	866	965	1,388	1,517	1,211	968	1,120	4
IZymotic	3,260	146	154	184	214	186	163	260	502	572	397	245	229	1
IIConstitutional	2,117	103	119	149	185	209	168	165	216	190	194	181	231	
III.—Local Diseases	3,697	198	213	368	457	364	256	240	286	377	307	277	346	
IVDevelopmental	1,256	68	76	82	85	124	89	121	133	125	117	106	129	
VViolent Deaths	656	37	32	28	49	52	67	68	75	56	72	60	57	
Unk. and Unclassified	1,514	103	78	108	112	136	123	111	176	197	124	99	128	15

the deaths in Michigan are reported to have been caused by lung diseases; this is a larger proportion than is shown in this exhibit for any other year. In 1874, 54.22 per cent, of the deaths in Michigan are reported to have been caused by the five causes grouped in exhibit 8; in 1873 and 1872, the per cent, is a little more, and in 1871, 1870, and 1869, the per cent. Exhibit 8 is the same in plan as the corresponding one for previous years, with the addition of data for 1874, and shows the number and proportion of deaths from each of five groups of causes. There were more deaths from Lung diseases in each of the years 1869-1874 than from any other of the groups of diseases in the exhibit. In 1874, more than one-fifth of was a little less. The average proportion of deaths from these five groups for the six years 1869-1874 is 52.81 per cent.

EXHIBIT 8.—Order of Succession of Five Groups of Causes of Death in Michigan for each of the Years 1869 to 1874, inclusive, according to the Returns.

YEA	YEAR, 1969.		YEAS	YEAR, 1670.		YEV	YEAR, 1871.		XEX	YEAR, 1672.		YEAL	YEAR, 1873.		YEAE	YEAR, 1874.	
3	Per Ct. of All Canses.		Diseases	Per Ot.	Num.	DIFEASTS	Per Ct. of All Causes.	Nun.	DISTABLE	Per Ct. of All Causes.	Nom-	DISTAGES	Per Ct. of All Chuses.	Num. Der.	DISEASES	Per Ct. of All Causes.	Num. Der.
10808	All Oauses	9,16	146 All Causes 10,786 All Causes		90,00	All Causes		8,738	9,728 All Causes 13,371 All Causes		18,871	All Causes		14,258	14,258 All Causes		12,500
Lungs	30.88	1,881	,901 Lungs	19.45	20,	2,094 Lunga	20.72	2,018	2,018 Lungs	18.26	2,441	18.26 2,441 Lungs	17.61	2,511	17.61 2,511 Lungs	20.8	2,606
Bowels	14.65	1,38	321 Bowels	17.21	1,868	1,868 Bowels	11.85		1,153 Bowels	17.04	2,278	17.04 2,278 Brain	16.38	2,336	2,336 Bowels	15.26	1,907
Brain	10.81	8	996 Brain	10.67		1,138 Brain	11.85		1,004 Brain	13.23	1,779	13.23 1,779 Bowels	14,80	2,121	2,121 Brain	11.60	1,450
Heart	80.00	23	276 Heart	2	836	316 Throat	3.06	8	296 Throat	864	8	391 Throat	204		434 Heart	88.38	95
Throat	24	8	220 Throat	25	£	272 Heart	2 00		294 Heart	82	22	573 Heart	64		402 Throat	3,16	8
1-5 5 Groupe	2079	4 ,638	,678 5 Groups	8	5.63	52.70 5,673 5 Groups	26.05	798,9	49.92 5,857 5 Groups	2.2	7,382	54.94 7,982 5 Groups	54.74	7,804	54.74 7,804 5 Groups	54.22 6,777	6,777

of the several groups to each other, and of the deaths of their graphic representation in Diagram No. 5, on in each group in the different years, are best fixed in mind by means Though the exact figures are best stated in Exhibit 8, the relations the opposite page.



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EXHIBIT J.—Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of death, with a list of Counties included in each Division.

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	Upper- Peninsular.	North-west.	Northern.	North-east.	Western.	Northern- Central.	Bay and Eastern.	Central.	South- western.	Southern. Central.	South-
23	Baraga.	Benzie.	Antrin. 1	Alcona	Kent.	Clare.	Bay. v	Barry.	Allogan.	Branch.	Macomb.
	Chippowa.	Gr. Traverse	Charlevoix.	Alpena.	Lake.	Gladwin.	Huron. *	Clinton.	Berrion.	Calhoun.	Monroe.
	Delta, b	Leelanaw.	Cheboygan.	Iosco. m	Mason. °	Isabella.	Lapeer.	Eaton.	Casa.	Hillsdale.	Oukland.
	Houghton.	Manistec.	Emmet. k	Presque Isle."	Muskegon.P	Mecosts.	Saginaw. x	Gonesce.	Van Buren.	Jackson.	Wayno.
	Keweenaw.	Manitou.	Kalkaska.		Newaygo.	Midland.	Sanilac.	Gratiot. 7		Kalamazoo.	
	Mackinac, e	Missaukoc.			Oceana, r		St. Clair.	Ingham.		Lenawee.	
	Marquette. 4	Wexford.		•	Osceola.		Tuscols.	Ionia.		St. Joseph.	
	Menominec.				Ottawa.			Livingston.		Washtenaw.	
	Ontonagon.	•						Montcalm. s	-		
	Schoolcraft.							Shiawassee.			
•		•	•	•	•				-	-	

Table XV. contains data concerning the death-rate in Michigan in 1874, by geographical divisions, based upon the population in 1870 and the deaths returned for 1874, also concerning the proportion of reported deaths in 1874 from all causes, and from each class of causes, by geographical divisions.

The largest death-rate is shown for the northern division, the smallest for the southern-central; but the northern division was so sparsely settled in 1870 that any results of calculations based upon the population in 1870 and the deaths in 1874 are not fairly comparable with those for the old-settled parts of the State, because the population of those portions of the State which were

thinly settled has changed greatly.

The largest proportion of deaths from Zymotic diseases appears for the north-eastern division of the State, the smallest for the northern; the largest proportion from Constitutional diseases was in the southern-central division, the smallest in the north-eastern; the largest proportion from Local diseases was in the northern division, the smallest in the north-eastern; the largest proportion from Developmental diseases was in the northern division, the smallest in the south-western; the largest proportion from Violent deaths was in the north-eastern division, the smallest in the north-western; and the largest proportion from the unknown and unclassified diseases was in the Bay and Eastern division, the smallest in the north-eastern. Nearly one-quarter of the deaths in the Bay and Eastern division were from unknown and unclassified causes, which does not speak well for the intelligence in that part of the State.

TABLE XV.—Exhibiting, for the State, and for each of Eleven Geographical Divisions of the State, the Population, June 1, 1870; the Number of Deaths Returned, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1874; the Per Cent. of Reported Deaths in 1874 to Population, June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.

STATE	Popula- tion, June	REPO	ATHS RTED, 174.	Per Ct.	PER CI CAU	SES TO	DEATHS	FROM A	LL CAU	ass of ies,
AND GEOGRAPHICAL DIVISIONS.	1, 1870, Represent- ed by Deaths in 1874.	Num- ber.	Per Cent. of Total.	Deaths in 1874 to Popu- lation in 1870.	Class I. Zymotic Discus's.	Class II. Consti- tutional Diseas's.	Class III, Local Discas's	Cl'ss IV. Develop- mental Discas's.	Class V. Violent Deaths.	Unk'n and Un- clas- sified.
STATE	1,172,182	12,500	100.00	1.07	26.08	16.93	29.58	10.05	5,25	12.11
Upper-Peninsular.	42,187	655	5.24	1.55	26,26	15.12	22.44	12.06	9,92	14.20
North-western	17,795	207	1.66	1.16	28.50	16.91	24.16	14.49	2.90	13.04
Northern	5,921	123	.98	2,08	10.57	8.13	39.02	17.89	8.13	16.26
North-eastern	6,553	75	.60	1.14	34.67	8.00	17.33	10.67	22.67	6.66
Western	109,868	1,816	10.53	1.20	80.77	14.82	25.23	11.78	5.82	12.08
Northern-Central	11,870	186	1.49	1.57	27.96	16.67	22,04	12.36	4.30	16.67
Bay and Eastern	148,708	1,826	14.61	1.23	25.85	14.08	23.77	7.72	4,87	23.71
Central	221,168	2,068	16.54	.93	26.45	16.39	32.69	10.30	4.21	9.96
South-western	117,140	1,118	8.94	.95	26,65	17.62	85,60	6.98	4.65	8.50
Southern-Central_	275,904	2,241	17.93	.81	23.74	20.79	85, 12	8.79	4.06	7.50
South-eastern	215,068	2,685	21.48	1.25	25.47	17.94	28.73	11.55	6,00	10.82

TABLE XVI.—CAUSES OF DEATH.—Nosological Arrangement.

Exhibiting the Number of Reported Deaths in Michigan and in each County of the State during the Year 1874 from Specified Causes, Statistically Classified (Still-births Included).

			İ									0	OUN	COUNTIES.											
CAUSES OF DEATH,—1874.	STATE	АІсопа	Allegan.	Alpena.	Antrim.	Ватада.	Barry.	Bay.	Benzle,	Berrien.	Branch.	Calhoun.	Chas.	Charlevoix,	Срероукап	Chippewa.	Clare,	Clinton.	Delta	Enton.	Ешшей	доповос	Gladwin.	Gr. Traverse.	Gratiot
All Causes	12,500	11	118	85	83	10	192	520	98	395	65	98	1 3	121	22	00	88	1961	8	536	3	055	-	1 53	181
Specified Causes	10,986	00	274	8	63	on	176	214	5	368	202	273	130	19	8	0	1 21	181	1 53	918	8	861	-	8	122
Causes not Specified	1,500	03	37	01	9	C)	19	8	01	36	15	19	=	C3	*	05	4	11	27	8	G4	5	1	10	2
CLASSES.																									
I.—Zymotic Discases	3,260	0.0	90	16	*	1	4	8	1	111	51	99	88	64	*	61	=	3	49	63	-	120	1	16	7
II.—Constitutional Diseases	2,117	1	25	1	04	-	55	41	4	57	46	67	8	10	01	69	20	8	-	2	1	36	1	9	91
III.—Local Diseases	3,697	60	88	1	co.	10	57	46		158	79	109	2	6	Q1	1	*	97	-	85	24	11	н	9	88
IV.—Developmental Diseases	1,256	01	38	99	7	i	5	76	13	20	17	13	00	e	10	-	+	83	*	13	61	75	i	68	7
VViolent Deaths	. 656	7	13	00	10	1	6	77	-	16	13	23	20	-	Gi.	1	61	6	4	6	61	15	-	1	•
Unclassified	14	1	i	;	1	1	i	-	1	~	1	i	i	i	i	÷	1	Ť	÷	÷	1	+	Ť	1	
ORDERS. I.—I. Missmatic Discases	3,204	O1	90	16	00		9	88		111	8	- 79	123	-	*	68		70	10	23	-	- 75	1	16	7
2 Enthetic Diseases	6	1	1	1	1	1	1	1	1	1	1	i	İ	i	i	1	i	Ť	1	÷	Ť	+	1	1	
3. Dietic Diseases	23	-	1	1	1	1	1	-	1	1	1	F	1	H	1	i	i	÷	i	÷	t	1		1	
4. Parasitic Diseases	19	1	1		г		1			1	-	F	i	i	i	i	1	-1	i	7		1	i	1	

TABLE XVI.—Continued.—Causes of Death, Classified.

III. Data						1							COUNTIES.	TIE										
System 1,348 26 4 3 7 1 2 1 15 7 1 16 7 21 6 7 2 2 3 2 5 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ħ	.statë								Berrien.	Branch.	Calboun,	Ораза,	Charlevolx.	Cheboygan,	Сыррема	Clare	Clinton	Delta.	Enton.	Emmot	Genesee.	Gladwin,	Gr. Traverse.
System	IIl. Diathetic Diseases	643	1	1 8	1 1	1	1 -	1			1	12	1 9	1	1	11	11	1 9	1-	1	11	1 8	11	10
System	2. Tubercular Diseases	3,474	-	37	-	01	-	***		_	-			10	04	64	63	83	9	8	T	8	1	-
413 8 1 1 13 9 15 8 15<	III1. Discases of Nervous System		- 1	98	-	_	-	_			-			9	-	1	60	=	-	25	2	8	1	60
1,902			1	80	- 1	1		-	-	=	6	15		1	-	1	-	23	1	10	1	12	1	1
195 3 15 3 17 18 9 1 6 16 16 16 16 16 16 10 11<		1,202	1	3	-	60			1	_		_		04	-		-	15	9	2	1	17	1	-
130	4. Diseases of Digestive Organs	233	-	6	01	01			_	8				1	-	-	1	9	- (16	1	10	:	-
60 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_	1	10	7	-	- 1	-		-	-	0		1	-	1	T	-	1	_	1	1	-	-
60 90 90 90 91 92 93 94 95 95 96 97 98 98 99 90 <td>6. Diseases of Generative Organs</td> <td>•</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td>-</td> <td>4</td> <td>1</td> <td>_</td> <td>1</td> <td>i</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>i</td> <td>i</td> <td>Ť</td> <td>Ť</td> <td>Ť</td> <td>i</td> <td>7</td> <td>1</td>	6. Diseases of Generative Organs	•	1	1	1		-	4	1	_	1	i	1	1	1	1	i	i	Ť	Ť	Ť	i	7	1
400 202 203 204 205 206 11 12 13 14 15 16 17 18 19 11 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10		10	i	-	-	1	+	+	1	1	1	1			-	ī	i	i	1	F	i	Ť	1	1
409 6 6 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8. Diseases of Integumentary System.	8	61		_		-	<u> </u>						-	1	İ	1	i	İ	_	1	-	i	1
orders of Women. 222 1 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L. Developmental Diseases of Children	900	-	77	-	_			*	00			60	-	10	-	01	17	G4	-	-	_		1
or Old People 428 13 2 1 7 4 9 7 8 4 1 11 10 1 6 on the control of the c	2. Developmental Diseases of Women.	932	-	60	-	<u></u>	_		-		-	7	-	-	1	1	-	10	01	01	1	9	i	1
nnce	3. Develop. Diseases of Old People	138	1	13	64	+	_	-	1	ca.	100		*	1	1	1	-	=	1	10		9	1	03
nco	4. Diseases of Nutrition	İ	1	1	+	+	1	1	1	1	1	-	1	1	1	Ť	i	i	Ť	1	Ť	1	İ	1
25 25 27 27 27 27 27 27 27 27 27 27 27 27 27			T		1	*			2.40				4	1		-1	01	9	60	9	94	9	1	1
25 25 25 25 25 25 25 25 25 25 25 25 25 2	Z. Battle	-	i	1	1	1	1	1	1	1	1	1	1	1	1	İ	Ť	t	i	i	i	i	1	i
2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3. Homicide		÷	+	1	-	1	1	1	1	1	1	1	1	T	İ	Ť	Ť	÷	Ť	i	1	Ť	i
***************************************	4, Saicide	23	÷	1	-	-	-	-	1	-		-	-	1	-	Ť	1	01	1	~	:	00	÷	İ
	5, Execution	i	i	1	+	1	1	1	i	i	1	1	1	1	1	İ	i	t	i	Ť	i	1	i	Ť

\$3.204 2 90 16 3 1 40 88 7 111 1 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CLASS L-ZYMOTIG	3,260	61	8	161	*	-	-	8	71 117	17 51	0 1	9 33	-	_	01	=	20	9	8	7	3	ī	16	F
20	L-ORDER L Miasmatic	3,204	01	8	16	60	-	9	88	7 11		9	85	_	•	61	=	54	20	8	-	25	1	16	4
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19. 213	3. Scarlatina	440	1	60	i		-	9	6	-	- 63	_			I	1	-	-		21	i	-		7	
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103	6. Cronp	142	1	-	1	+	+		100	-	1	- 1	-	1	1	i	1	н	1	60	1	63	Ť	1	64
610 20 10 10 10 10 10 10 10 10 10 10 10 10 10	7. Whooping-cough	153	1	Ç1	1	+	:	-	69			_	-	1	*	1	1	-	1	10	1	+	i	i	
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200 20 4 4 6 20 20 4 7 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Typho-malarial Fever	1	Ì	i	1	1	1	1	-!		1	1	-	1	-	1	-	1	1	1	i	i	1	i	1
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200 2 4 4 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	10. Puerperal Fever	67	1	Ť	1	1	-	64	-	1	-	-	80	i	i	1	1	01	1	-	i	*	+	1	-
200 2 4 4 23 15 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11. Carbuncle	-	i	Ť	+	1	-	1	1	1	1	1	1	1	-	1	1	1	1	F	i	i	1	i	:
200 29 4 4 13 1 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	12. Influenza	9	i	Ť	1	-	+	-!	1	1	1	- 1	01	-	-	1	1	1	1	1	1	T	1	Ħ	1
203 2 4 13 1 6 85 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	13. Dysentory	305	T	+	1	+		2		60		2	1	-	1	1	1	9	80	00	1	60	1	15	•
238 — 7 18	M. Diarrhea	330	04	*	13	-	-	9	10	90	-	9	01	-	-	1	1	60	1	-	-	01	i	- 1	-
143 - 29 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	15. Cholera Infantum	278	1	-	+	+	1	01	1	9	-	80	9	-	-	1	1	9	-	6	1	-	1	-	1
143 4 1 10	Cholera Morbus	18	1	1	1	-	-	-	1	_	1	-	1	1	1	1	-	-	Ì	1	1	1	i	÷	1
143 4 1 10	D. Cholera	9	1	1	1	1	1	-	-		1	-	-	1	1	1	1	1	i	1	1	1	1	1	1
108	17. Ague	143	1	+	1	+	-	63	_	2	1	7	64	1	-	1	1	01	T	-	1	*	+	1	9
	(Fever	108	1	81	64	+	1	-	_	-	1		1	1	1	1	1	1	T	+	1	10	1	1	-
Remittent Fever. 12 1 2 1 2 2 1 2 1 2	18. Remittent Fever	20	İ	1	+	+	- 1	-	61	*	04	1	1	1		1	1	-	1	64	1	÷	1	+	;
1 2 5 2 1 2 1	19. Rheumatism	23	1	-	1	_		10	1	2	64	-	1	1	1	1	1	C1	-	1	1	*	1	÷	

TABLE XVI.—Continued.—Causes of Death, Classified.

		4.7							į			OCCUPATED NO				i								
CAUSES OF DEATH,—1874.	STATE	Alcona.	Allogan.	Alpena	Antrim,	Baraga	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun,	Charlendia	Charlevoix.	Chippewa.	Clare	Clinton.	Delta	-	Enton.	Emmet,	Genesee,	Gladwin.	Gr. Traverse.
I.—ORDER 2. Enthetic	6			1	11		1	1	1 :	1 1		1 1	1 :	1 1		1	1 :	1 !		1 :	1 1	1 1	1 1	FI
1. Syphilis	6	1	1	1	-	1	i	1	1	1	1	1	;	1	- 1	- !	1	- 1	-1	+	1	i	1	-
(Stricture of Urethra	-	i	1	1	-	1	i	i	1	1	-1	i	1	i	-	-	- !	1	+	÷	- 1	1	+	i
	-	1	-1	1	1	1	1	i	1	1	1	1	1	1		1	1	- :	+	1	+	1	-	1
2. Hydrophobia	-		1	1	1	1	1	Ì	1	1	1	1	1	1	-	1	i		1	÷	+	+	÷	-
4. Glanders	1	1	1	1	1	1	Ť	1	i	1	i	Ť	i	1	1	1	+	1	+	1	Ť	1	+	1
L-Order & Dietic	88	- 1	- 1	1	- 1	1	-	-	1	1	1	-	- 1	-	- 1	_ !	-1	1	1	- 1	+	- 1	1	-1
1. Privation	01	1	1	1	- 1	i	1	i	1	-	1	i	-	-1	1	1	- 1	+	÷	+	1	1	+	1
(Purpura	20	- 1	1	i	1		1	i	1	1	1	+	i	i	1	+	-	1	+	1	1	+	1	1
2 Bachitis	1	1	1	1	1	1	1	Ì	1	1	:	1	-	-	1	- 1	+	+	i	+	÷	i	+	
Scurvy	1	;	1		1	-	1	Ī	1	1	1	1	1	1	1		1	:	t	+	t	1	1	1
3. Delirium Tremens (Alcoholism)	9	1	1	1	1	1		Ť	-	1	1	1	-	1	1			1	+	:	i	1	+	1
4. Intemperance	15	1	1	1	i	1		-	1	1	1	-	1	1	1	1		1	+	1	Ť	1	1	1
IORDER & Parasitic	g	1	1	1	-	-	H	- 1	-	- 1	F	-	i	1	1			+	1	1	1	-	1	- 1
1. Thrush	90	1	1	1	-	-	1	•		1	-	-	+	-	+	1		+	+	÷	1	i	÷	2,0
2. Worms	11	1	1	1	i	1	1			:	:	1	+	1	1			+	+	1	-	ŕ	+	1
3. Disease of Scalp		1		1	1	1	. :	-1	÷ · ·	1	.1	1	1	1	-	1		+	+	Ť	Ť	1	÷	ar.
CLASS II.—COMSTITUTIONAL	2,117	_	53	-	64	-	50	41	*	22	46	67	8	ю	69	64	60	39	1	55	1	36	1	9
II.—ORDER L. Diathetic	643		15	1		-	15	6	-	16	-	100	4				-	101	-	1	-	2		

1. Gout		1	-	1	1	1	ī	1	1	1	7	- 1	1	1	1	1	- 1	1	i	1	1	100	
(Ansmis	175			1	1	10	-		10	н	-	gs	+	1	1	-	-	69	1	I		-	_
Topsy	229		00	1	-}	*	00		*	20	9	64	:	1	- 1	***	,	9	1	60		-	63
3. Cancer	190	-	01	j	1	9	-		9	60	90	01	+	1	+	-		6	-	4	1		
4. Noma (Canker)	31	1	-	i	1	1	1	-	1	1	1	+	1	1	-		_	- 1	1	1	1		
3. Kortification	17	1	-	1	1	1	1	310		1	1	÷	÷	+	+	1		÷	1	C)	-		
IIORDER L Tubercular	1,474	1	22		1	18	65	60	7	39	46	19	40	01	04	8	9	98	1	56		=	_
1. Scrofula	81	1		1	1	1	I		1	01	-	-	1	1	+	1		i	1	:	- 1		
2 Consumption of Bowels	88	+	-	1		1	1		1		-	-	+	+	+	1		1	-	1	1		_
3. Phthisis (Consumption of Lungs)	1,401	1	35	64	1	16	32	99	4	37	2	17	10	64	04	8	20	98	1	26		=	_
4. Hydrocephalus	80	+	-	-		-	1	- (1	1	-	+	+	+	-	+	-	- (1	1	į		
5. Marasmus	90	1		1	1	1	T	,	1	ì	1	1	+	+	-	1		-1	1	:	1		_
CLASS III.—LOCAL DISEASES	3,097	89	100	6	NG.	21	46	t.	158	79	90	69	0	01	-	9	-	85	2	2	_	88	_
III -ORDER L Nervous System	1,348	- 38	50	6.3	1	8	33	C 3	20	53	98	22	9	-	-	=	_	31	35	81	-	2	
1. Cephalitis	263	1	01	i	,]	10	7	-	٠	1	10	04	-	+	1	-	-	Ĉ4	1	9	1	-	_
2 Apoplexy	63	-	80	:	1	H	-	,	01	-	10	-	1	-	-	-	69	C1	1	-1		_	_
3. Paralysis	177	-	,	1	1	*	04	-1	7	H	=	01	01	÷	1	41	G1	91	1	63	1	i	
4. Insanity	17	1	-:	i	1	:	i		•	+	Ť	+	+	-	1	1			1	-1	-		
5. Chores	00	1	-	1	1	C.	1		1	+	;	-	1	1	1	1		1	1	1	1	_	
Dementia Epileptic	1	+		1	1	1	1	- 1	•	+	i	+	+	+	1	1	-	1	1	1	1		
C. Cpilepsy	30	1	-	1	1	1	1	T	- 1	1	:	-	+	1	1	_		C+	1	1	1		
7. Tetanus	9	1	-	1	1	1	1	,		-	1	1	1	1	1	1		1	1	1	1	i	
(Convulsions	258	- 1	01	-	1	-	1	-	15	01	9	-	;	+	1	1	-	9	1	10	64	~	_
8 Hysteris	64	1	÷	1	j	1	T	¥.	-1	1	-	+	+	1	1	1	-	:	1	1	1		
Spaem of Glottis	1	1		- 1	1	1	1	. 1	-:	1	1	1	+	+	1	1	•	1	1	1	i		
Brain Diseases	173		61	_	1	*	4.	v	10	10	0	-	1	1	i	_		01	=	200	1	-	
9. Dropsy of Brain	19	1	-	1	1	1	г	- 1	_	1	-	+	- 1	Ļ	1			4	I	-	1	C4	
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TABLE XVI.—Continued.—Causes of Death, Classified.

	_											CO	COUNTIES	ES.										
CAUSES OF DEATH,—1874	ATATE	Alcona	Allegan.	Alpena	Antha.	Baraga	Barry.	Bay.	Benzie,	Berrien.	Branch	Calhoun.	Cass.	Cheboygan,		Chippewa	Clinton,	Delta	Eaton.	Emmel,	Genesee	Gladwin	Senvera .10	Gratiot.
10. Spinal Fever	88		1 00	11	li	11	i -	H	11	1 22	1 0	1 04	1 -	1 01		1 !	1 82	1 :	1		1	1	1 :	1
11. Spotted Fever	9	-	1		i	i	i	i	1	:	+	- :	:	1	- :	- 1		1		98	-	1	- 1	-
19. Noningitis	9	1	i	1	1	1	89	1	+	+	+	+	+	:	-	-	-	1	1	1	:	1	1	- 1
13. Meningitis, Cerebro-spinal	350	1	1	1	-	i	i	1	i	-	-	1	- 1	- 1	-	-	- 1	-	1	13	-	1	i	
14. Moningitis, Spinal	. 51	-		1	Ì	1	1	04	-	-	1	-	-1	- 1	+	1		-		19		1	i	- 1
15. Neuralgia	60	1	1	1	i	i	Ť	i	i	+	- :	- :	-	- 1	+	+		-	i	1	:	ij	-	- 3
16. Spine Disease	. па	-	10	1	1	1	-	-	1	-	_	+	1	1	-	4		-		-	01	i	Ė	_
17. Spine, Infammation of	80	1	1	1	1	i	i	1	÷	+	+	+	+	1	+	+	- !	1	1	1	1	1	1	-
19. Frightened	-	1	į	1	T	1	i	Ť	1	1	+	+	+	+	1	+	1	1	1	1	1	1	i	1
III -ORDER & Organs of Circulation	+13	- 1	00	1	1	1	7	10	-	13	0	15	00	+	4	1	_	13		10	15	i	- 1	_
1. Pericarditis	E	-	1	1	İ	i	10	+	1	*	-	Q1	01	÷	1	+	-	1		01	60	1	i	_
2 Aneurism	-	1	1	1	İ	Ť	÷	:	+	:	+	÷	÷	1	1	1	-	+	1	i	;	1	1	1
2. Heart Disease	342	1	80	1	İ	1	04	10	-	6	80	13		<u> </u>	+	-	-		_	10	22	1	i	
4 Haboli	-	1	1	1	İ	i	i	i	+	t	+	1	1	+	+	1	ļ	1	1	1	1	1	1	1
III.—ORDER & Respiratory Organs	1,202	- 1	4	-	00	94	23		69	89	22	23	27	01	-	_		12	6 24	1	17	-	-	
1. Epistaxis	1	1	1	1	i	1	+	+	1	1	+	÷	+	1	1	1	i	1	1	1	1	1	1	1
2. Laryngitle	-	i	1	1	i	1	+	÷	+	+	÷	÷	1	+	1	1	1		1	i	1	1	i	1
2, Bronchitis	150	1	1	i	İ	+	1	+	1	01	-	+	-	_	1	1	ļ	1	_	1	1	1	1	1
4. Plenrisy	66						0					-	_		_			_				Ī		

g. Pretumonia	914	38	=	1	1	1 12	61	8	23	8	83	=	1	1	14	01	30	7	13	•	=	E
C. Asthma	8	1	1	-	-	1	i	i	1	-	+	- 1	1	-	1		1	1	-	- !	- 1	
7. Lung Diseases	112	9	1	01	1		1	0	C1	10	69	- 1	1	1	-	7	00	:	99	1		64
III.—ORDER 4. Digestive Organs	535	1 0	64	Q4	61	6	1	20	11	18	O.	-	1		9	1	16	-	122	-	-	
[Gastritle	- 56	1	i	+	1		1	-	60	-	-	+		1	-	1	-	+		1	1	
1 Throat Disease	- 75	!	1	+	1	C4	1	-	=	+	+	+	1	_	1	1	t	+	+	4	1	
Throat, Putrid Sore	60	1	i	+	1	1	İ	1	-	+	+	1	1	1	1	1	†	1	+	1	1	
2. Enteritis	808		04	C+	-	5	i	23	+	00	01	+	1	1	1	1	6	1	-	1	-	10
2. Peritonitis	11	1	i	+	1	1	i	1	-	+	+	+	!	1	1	1	i	+	+	1	1	
4. Abelton	6	1	1	1	1	1	1	i	1	-	+	1	1	1	1	1	1	+	1	1	-	-
& Ulceration of Intestines	9	1	i	1	-	1	i	Ť	1	1	-	+	-	1	i	1	t	+	-	1	1	
c Herais	13	1	i	1	+	1	Ī	-	T	100	-1	1	1	1	1	-	-	+	i	1	-	.et
7. Obstructions of Bowels		1	i	1	-	1	İ	1	+	1	1	-	1	1	1	1	t	1	1	1	1	
8. Intustusception	1	1	1	1	1	1	i	1	÷	+	+	+	1	1	-1	1	t	+	1	1	1	
9. Stricture of Intestines	61	1	İ	1	1	-	Ì	1	1	1	1	-	1	-	1	I	+	+	!	1	1	
10. Fistala	-	1	İ	+	1	1	İ	+	1	+	+	1	1	1	-	1	i	1	1	1	1	
11. Stomach Diseases	69	-	1	-	_	-	İ	1	01	1	100	1	į	1	1	1	01	1	4	1	_	_
12. Pancreas Diseases		1	1	1	1	1	1	1	1	1	+	-	1	1	1	1	+	1	1	1	1	
12 Hopatitis		-	i	1	7	1	i	1	01	1	+	1	1	-	1	i	1	i	<u> </u>	1	1	
14. Jaundice	16	-	1	+	-	1	İ	1	-	1	1	1	1	1	-	1	-	+	1	1	1	
16. Liver Diseases	98	01	i	+		-	1	-	64	:	-	-	1	-	*	1	-	1		1	7	_
16. Spieen Diseases	01	1	1	1	1	1	1	-	+	+	+	1	1	1	1	1	+	+	1	1	1	
17. Bowel Diseases, etc.	40	01	-	+	-	1	1	90	1	G4	64	1	1	1	2	1	-	1	_	-	╛	
18. Mouth Disease		1	1	1	1	1	i	1	+	1	+	1	1	1	1	1	+	1	1	i		
IIIORDER 5. Urinary Organs	126		1	-	-	1	-	00	-	10	01	1	1	-1			10	-	-		_	
L Nephritis	16	1	1	1	1	1	i	i	+	+	+	-	1	1	-	1	01	+	1	1		
2. Ischuria	1	ļ	İ	+	4	I	İ	÷	+	+	÷	+	1	I	× 1.	İ	+	+	1	1	<u>.</u>	
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TABLE XVI.—Continued.—Causes of Death, Classified.

											٥	COUNTIES	TIES										
CAUSES OF DEATH,—1874.	,atată	Alcona.	Allegan	Alpena.	Baraga.	Batty.	Boy.	Benzie.	Berrien.	Branch.	Calboun.	Cass,	Charlevoix,	Cheboygan.	Сріррема.	Clare.	Clinton.	Delta.	Enton.	Emmet.	Genesee.	Gladwin.	Gr. Traverse.
3. Bright's Disease of Kidneys	15	1	1 1	1 :	1 1	l i	1		1					1	1	11	l	1	1-	H		1	1
4. Diabetes	- 12	+		1	1	,	-	1	_	1	63	1	-	1	1	1	1	1	01	1	i	1	-
5. Calculus (Gravel, etc.)	50	1	1	-1	1	,	1	1		_	1	61	-1	- 1	1	1	1	1	1	1	-	1	1
6. Cystitis	10	1	-	-	-	,	-	1	1	1	- 1	1	-1	-	1	1	1	- 1	1	i	i	1	- ;
7. Kidney Diseases	88	1	01	+	+		-		-	-	1	-	1	1	1	-1	Ì	1	1	1		-	1
IIIORDER 6. Generative Organs	00	÷	1	-!	- 1	- 1	- 1	- !		1	- }	1	- 1	- 1	1	- 1	1	1	-	1	-	i	- 3
1 Ovarian Dropsy	1	Ť	÷	+	1	1	-	1		1	1	1		T		1	İ	Ť	1	1	i	Ī	- 1
Ovarian Tumor	-	+	1	1	1	1	1	1	1	1	1	i	i	1	1	i	1	1	1	1	İ	Ť	1
(Diseases of Uterus	9	÷	÷	+	1	1	:	i			1	1	- 1	1	1	1	1	Ì	1	Ť	Ť	i	
- Hydrocele	-	÷	1	+	+	1	1	1	1	1	1	1	1	-	1	1	T	Ì	1	1	i	Ť	-
IIIORDER 7. Organs of Locomotion	10	Ť	+	+	+	_	1		i_		-				i	-	T	T	-	i	1	Ť	- 1
1 Arthritis	İ	i	÷	1	1	1	+	1	1	1		1	1	1	1	1	Ī	T	T	i	1	i	1
(Bones, Disease of	-	1	1	1	1	<u>!</u>	+	1	1	1	1	1	ŀ	1	1	1	İ	Ī	1	Ì	1	İ	ï
2 Joint Diseases	+	+	+	1	1	i	1	1	1	1	1	1	1	1	1	1	İ	1	-	1	1	1	1
IIIORDER 8. Integumentary System	98	01	01	-1	1	-	1	-		60	01	1	-	1	1	1	İ	1	1	1	-	1	- 1
1. Phlegmon	88	-	-	+	-	-	-	1	-	1	1	1	1	-1	i	1	İ	Ť	1	1	i	Ť	- 1
2 Ulcer	69	+	1	+		1	1	-	1	1	i	1	-	1	i	1	i	1	1	i	i	i	- 1
3. Skin Diseases	53	H	-	+	1	+	1	1			1	1	1	1	1	1	1	i	T	1	-	1	1
CLASS IV - DEVELOPMENTAL DISEASES	1.256	61	98	0		_	-		-					3			-						Ī

IV ORDER 1. Developm'l Dis. of Children	909	-	7	-	9	6	22	4	00	6	-	00	1 3	10	01	17	Ġŧ.	-	ī	21	1	ю
1. Still.born	464	-	п	F		0	6	01	1.	6	*		1 10	1	04	14	01	9	- 6	6	1	10
) Infantile	27	1	04		1		-	1	1	- ;	-!	4	-	1	1	•	1	;	-	-1	1	
Premature Birth	-	1	1		1	•	1	01	-	1	,	1	1	1	i	93	1	-	,	1	1	
3. Cyanosis	i	1	1	1	1	•	i	1	1	1	+	+	1	1	-	1	1	1		:	1	
4. Spina Binda.	01	1	1	-	1	- 3	1	1	1	-	1	1	Y.	1	i	1	1	1		1	į	
5. Other Malformations	60	1	1	-	1	1.0	1	1	1	1		4	:	1	1	1	1	;		1	1	
6. Teething	68	1	1	1	1	· K	7	1	1	1	1	1	:	1	i		1	1		00	1	
7. Injury at Birth	İ	1	1	1	1	-74	1	1	1	1	1	1	-	1	1	ij.	1	1	4	:	1	
IV ORDER 2 Developm'l Dis. of Women.	555	-	60	- 1	-	10	7	-	10	-	-	-		1	Н	10	.01	94		9	i	4
Dyamenorrhea	i	1	1	1	1	1.6	1	1	1	1	1	1	- 1	1	1	ŧ	1	1	14.	. 1	i	
Turn of Life	7	1	1	-	1	- 1	:	1	1	1		-	-	1	1	1	1	1		1	1	i
Childbirth	200	H	93	- 1	1	*	-	1	00	-	9	- 1	-	1	-	10	61	04	- 1	0	1	-
2 Abortion	7	Ī	1	1	1	•	1	1	1	:	1	-	:	1	1	1	1	1	- 1	п	1	i
Uterine Hemorrhage	9	i	1	1	1	м	1	1	1	1	+	- 1	1	1	1	1	1	1	1	. 1	1	
IVORDER & Dov. Diseases of Old People	438	1	13	01	1	17	*	1	0	1	00	+	-	1	-	=	1	10		9	91	10
1. Old Age	428	1	13	01	1	1	•	1	00	1-	000	-	-	1	-	=	1	10	-	9	01	0
IVORDER 4. Diseases of Nutrition	1	i	- 1	1	1	- 1	1	1	+	1	1	-	- 1	1	-	- 1	1	-	-5	1	1	1
l. Atrophy and Debility	İ	1	1	+	1	1	1	i	1	1	1	+	1	1	1	1	1	1	-	4	1	
CLASS VVIOLENT DEATHS	656	-	13	60	2	6	77	-	16	21	13	0	-	01	01	6	4	6	24	12	l	•
VORDER 1. Accident or Negligence	400	1	8	1	*	*	10	-	10	9	9	-	-	-	01	9	90	9	C+	9	i	63
L Fractures and Contusions	62	i	:	+	1	77	-	1	01	-	91	C4	1	1	1	01	1	1	- 1	1	İ	
2. Wounds	80	1	-	1	1	:	00	1		7	:	-	1	1	1	1	1	Ħ		-	i	
3. Burns and Scalds	71	1	н	1	1	г	-	1	-	:	H	+	1	-	01	-	1	1	1		1	-
4. Poison	81	i	1	1	1	117	115	İ	1	1	=	1		1	1	7	1	-	1		i	
5. Drowning	116	ī	C4	1	3 3	04	*	ī	04	=	-	1	7	1	1	-	7	O.S.	1	1	1	1

TABLE XVI.—Continued.—Cause of Death, Classified.

												3	COUNTIES	TIES										
CAUSES OF DEATH,—1874.	STATE	Alcona,	Allegan.	Alpena	Antria.	Baraga.	Barry.	Bay.	Benzie,	Berrien.	Branch.	Calhoun.	Chang	Charlevolx.	Срероувар.	Chippewa	Clare.	Clinton.	Delta.	Enton.	Emmet.	Genesee	Gladwin.	Gr. Traverse.
6. Suffocation	19		64	-					7	64		-					1			"			li	
7. Otherwise	86	-	60	T	1	1	1	1	1	04	10	1	-	-1	-		1		64	-	64	01	-	1
VORDER 2 In Battle.		- 1	- 1	-	-	1	. 1	- 1		1	-	- 1			- 1		- 1	-1	-1	-	- 1	1	-1	- 1
VORDER 3. Homicide	12			- 1	-			1			-	-	-				-					- 1	i	- 1
1. Marder	9	1	1	1	1	1	1	-	1	1	1	1	-	-		-	1	1	1	1		1		1
VORDER 4. Suicide	3		1	-	-	- 1	-	-	1	-	C1	4	i	-	1	-	1	01	- 1	,	1	99	- 1	1
1. Wounds	60	-1	1	1	1	1	1	-	1	1	1	-	1	1	-	1	1	1	- 1	1	1	-		
2 Poison	80	1	1	1	-	1	1	1	1	-	1	1	1		1	1	1	1	-	1	1	1	1	ì
3. Drowning	*	1	i	1	1	1	1	1	i	1	i	1	-	1	1	1	i	1	1	1	1	-	- [
4. Hanging	6	1	1	T	1	1	1	-	1	1	1	69	1	-	1	1	1	1	1	-	1	1	i	1
5. Otherwise and not Specified	83	1	T	1	-	1	-	1	1	1	04	CI	1	1	1	1	1	1	1	1	1	-	1	
VOnder L-Execution				-1	-	-	-	-	- 1	1		-		-	1	-	i	-	-	1	-	- 1		1
1-Hanging	1	1	1	1	1	I	1	1	1	1	1	-	-	1	1	1	1	-	1	1	1	1	1	1
VORDER 6. Violent Deaths not Included Above Sudden, Cause Unknown.	182	- 1	•	eo ;	11	11	*	60	11		60	01	-	- 1		11	11	- 1	-	* !	- []	60		11
Unclassified	11	1	1	-	1	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	-1	1	-	- 1
Causes not Specified	1.500	80	6	C		•	10	200	6	8	15	20	F	0	-	90	*	14	19	8	0	16		8

TABLE XVI.—Continued.—Causes of Death, Classified.

											ర	COUNTIES	IES,							1			
CAUSES OF DEATH,—1874.	Hillsdale.	Houghton.	Huron.	Ingham.	.alnoI	Losco.	Isabella.	Jackson.	.оохашавам.	Kalkaska.	Kent	Хеwееваw.	Jake.	Lapeer.	Leelanaw.	Lenswee,	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette	Mason.
All Causes	8	255	Ħ	202	586	8	98	277	331	7	286	23	8	224	9	330	188	16	970	2	0	254	4
Specified Causes	20 St	180	8 8	31 33	30 8	8 :	8 4	8 8	311	1 00	524	18 %	8	1 8 2	9 0	8 8	E S	1 = 0	12 8	1 6 2	1 00 -	1 2 8	1 th 4
CLASSES. I.—Zymotic Diseases.	8	1 8	5	1 8	8	1 .	00	1 2	1 22	1 01	1 5	1 2	1 0	1 2	1 =	1 88	9	1 04	1 =	2	01	1 20	1 12
IL-Constitutional Diseases	49	83	25	88	88	61	-	98	Z	-	101	40	00	83	6	8	37	-	9	13	-	46	-
IIILocal Diseases	55	47	81	8	8	01	=	108	112	-	143	22	0,	1	21	110	89	¢1	74	7	01	8	22
IV Developmental Discases	Ħ	5	90	81	75	04	•	8	27	-	12	1-	*	15	10	31	98	60	83	6	60	65	9
VViolent Deaths	6	19	00	6	15	13	61	20	15	1	88	13	н	6	00	90	10	1	13	01	1	83	00
Unclassified	-	60	1	-	i	Ť	1	÷	Ť	İ	Ť	i	1	1	1	1	÷	i	i	÷	÷	÷	1
ORDERS. II. Miasmatic Discases	8	67	98	63	- 8	-	00	19	92	64	173	21	00	-	=	98	- 19	63	26	9	69	92	12
2. Enthetic Diseases	-	1	i	i	i	i	+	i	1	i	1	i	+	1	Ť	Ť	1	1	H	†	÷	+	+
3. Dietic Diseases	1	-	i	1	-	i	1	01	00	i	- 1	-	-	+	i	i	i	i	1	+	-	04	-
4. Parasitic Discases	1	1	-	1	+	+	1	Ť	1	1	+	Ť	1	1	1	01	Ť	Ť	Ť	+	÷	i	+
II1. Diathetic Diseases	=	10	=	10	=	+	1	00	2	-	21	φŧ	-	6	-	5	=	1	30	9	-	83	01
2. Tubercular Diseases.	88	90	10	8	76	0	t	90	90		8		0	96	œ	1	50	4	4			00	

TABLE XVI.—Continued.—Causes of Death, Classified.

											COUNTIES,	TIE	số.										
CAUSES OF DEATH,—1874.	Hillsdale.	Houghton.	Huron,	Ingham.	Iosco.	Losco,	Isabella.	Kalamazoo,	Kalkaska,	Kent	Keweenaw,	Lake.	Lapoer.	Leelanaw.	Lenawee,	Livingston.	Mackinac.	Macomb,	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
III1. Diseases of Nervous System	81	18	00	20	88	10	60	35	04	98	6	7	64	7	41	24	1	12	10		30	10	9
2. Diseases of Organs of Circulation	9	00	01	00	- 00	-	1	15	90	1 18			6	-	12	7	-	12	1	-	9	-	1
3. Diseases of Respiratory Organs	23	16	10	45	98	1	9	36 4	13	1 41	20	01	23	60	89	23	-	22	01	1	83	00	00
4. Diseases of Digestive Organs		90	19	10	2	1	01	19 1	п	1 27	60	64	=	01	6	7	1	15	9	C4	9	65	1
5. Diseases of Urinary Organs	01	-	-	64	12	+	4	00	80	1	10	1	9	1	10	10	1	*	1	1	-	- 1	-
6. Diseases of Generative Organs	1	i	1	1	-	1	*		-		1	1	-	1		i	1		- 1	-	1	-	1
7. Diseases of Organs of Locomotion	1	- 1	i	1	-		1	1	-	1		-1	_1	1	-1	1	- 1	1	- 1	1	1	1	1
8. Diseases of Integumentary System	64	i	i	i	00	+	1	-	1		-	- 1	-	-	4			1	-	- 1	- 1		1
IV1. Developmental Diseases of Children	-	16	10	90	6	1	01	12	21	1 43	9	61	69	60	9	=	- 1	11	4	- 1	81	01	10
2. Developmental Discases of Women	60	60	-	*	10	01	1	4	4	10	-	01	10	-	*	,	94	00	04	-	2	00	-
2. Developmental Discases of Old People	00	01	01	10	100	1	01	10	=	8	-	1	7	7	21	00	-	6	63	O.	10	-	93
4 Diseases of Nutrition	1	1	İ	÷	+	+	+	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
V1. Accident or Negligence	7	15	10	10	13	п	61	60	90	13	6	1	-	64	*	63	1	7	- 1	1	11	1	01
2. Battle	1	1	i	1	1	-1	1	1	1	1	1	1	-	ij	1	1	1	1		- 1	1	1	į
3. Homicide	-	1	1	1	- 1	-	1	- 1	- 1	- 1	- 1	1	-	- 1		.]	1	i	- 1	1	1	- 1	-
4. Suicide	1	1	01	i	- 1	1	- 1	-	-		01	1	04			1	1	-		-	1		1
6. Execution.	1	1	i	1	- 1	1	1	- !	-	1	1	1	-		ı	- 1	1	- 1	-	1	-	1	1
6. Violent Deaths	10	4	r	4	00	01	1	H	9	13	60	-	24	7	7	C4	1	9	Ç1	-	6	20	1
CLASS L.—ZYMOTIC	99	68	5	62	90	-	- 00	63	20	9 174	13	6	74	н	88	47	G4	1	18	01	182	15	65

	The state of the s																					
(Chicken-pox		-1	-	-	1	-	1	1	1	-	i	1	1	1	;	+	1	-	-	1	-	-
1. Small pox		1		64	- 1	-	1	1	:	00	i	i	+	+	-	1	1	1	- 1	- 1	- 1	1
2 Measles	1	-	1	_	- 1	-	-	i	:	00	1	- 1	-	1	1	1	-	09	- 1		10	- 1
3. Soarlatina	21	-	-	50	01	1	4	*	1	18	1	09	52	1	21	10	-	88	-	1	-	- 1
4. Diphtheria	1	-	_	7	1	-	61	12	1	13	i	1	60	1	9	1	1	9	1		01	1
5. Quinsy	-	1	1	1	1		-	1	ī	-	i	i	+	1	-	1	1	01	1		-	+
6. Croup	01	9	60	65	1	1	*	-	1	90	-	1	10	-	-	H	1	10	1	1	90	-
7. Whooping cough	64	00	_	64	-	1	-	0	-	04	1	- 1	61	03	-	+	1	01	1	1	00	-
Continued Fever	1	-	1	1	1	1	1	i	1	-	1	i	÷	1	1	1	+	+	+	1	+	÷
Typhoid Fever	13	=======================================	8	19	1	*	13	F	-	39	10	-	16	1	10	13	1	01	1	1	-	-
Typhus Fever		1			1	1	-	i	i	1	i	1	-	1	1	1	-	00	1	-	-	+
Typho-malarial Fever	1	1	1	-	i	1	1	1	1	1	i	i	1	1	1	:	1	1	- 1	+	- 1	- 1
(Blood Poison		1		1	i		1	1	i	1	:	i	1	1	1	-1	1	- 1	+	1	+	1
Erysipelas.	01	1	-	-	1	-	9	1	1	10	i	i	1	G#	-	-	:	01	1	- 1	1	
10. Puerperal Fever			50		1	1	1	i	1	-	i	1	65	-	1	1	1	63	+	1	03	1
11, Carbuncle		1	1	1	1	1	1	İ	i	1	i	i	1	1	:	1	+	+	+	-	1	1
12. Influenza	-	1	-	1	1	1	1	i	i	1	i	1	÷	;	-	1	+	1	+	1	1	÷
13. Dysentery	01	4 13		80	93	-	00	=	1	16	-	01	9	-	9	15	-	01	1	_	1	-
M. Dlarrhea	1	17		4	1	-	-	0	1	81	60	00	00	-	-	04	-	90	-	1	10	01
15. Cholera Infantum		-	_	-	-	-	6	13	1	14	0+	1	01	+	98	1	1	01	10	1	-	-
Cholera Morbus	1	+	1	1		1	1	;	1	00	i	Ť	+	1	-	+	1	-	1	+	1	-
Cholera	1	1	1	1	1	1	1	1	:	-	-	1	1	-	-	1	-	-	1	1	1	+
17. Ague	00	93		-	-	-	-	91	1	4	i	T	89	-	60	7	-	01	-		1	H
Fever	1			-	1	1	1	1	1	GE .	i	÷	÷	1	.1	100	+	+	1	:	+	-1
Remittent Fever	01	1		100	1	1	9	i	1	*	1	11	60	1	-	-	+	1	P3	÷		00
19 Rhanmatiam	00			_	0		.00	-	-	9			-	-	.;	01	-	01		-		-

TABLE XVI.—Continued.—Causes of Death Classified.

	_										Co	COUNTIES.	ES.			- 1				- 7				
CAUSES OF DEATH,—1874.	Hillsdale.	Houghton.	Haron.	Іпgреш.	MinoI	.0080I	Isabella	Jackson.	Kalamazoo.	Kalkaska	Kent	Кемеепаж,	Lake.	Lapeer	Leelanaw	Lenawee.	Livingston.	Mackinac	Macomb,	Manistee	Manitou.	Marquette.	Mason,	Mecosta.
I.—Orden L. Buthetio								I	I		1					1			-		T	1		
1. Syphills					1	1		T	T	T			İ	1	T		1	T	+		i	T		
2. { Stricture		-	_					1	_	_	i	i	i	1	1	i	H	_		_	i	i		
3. Hydrophobia	1	1		- }	-	-	1	İ	1	Ì	i	ij	i	1	1	1	1	1	1	1	i	1	1	
4. Glanders	+	1	1	1	1	1	1	1	1	1	İ	i	Ť	i	Ť	-	1	+	Ť	Ť	1	Ť	1	
L-Order & Dietic	+	-		- 1	-	i	1	64	60	1	1	-		-	1	1	- 1	1	i	1	1	04	- 1	1
1. Privation	+	i		-	-	-	1	-	-	1	T	-	i	+	1	1	1	1	1	1	i	i	1	1
Purpura	+	i	1	1	-	1	1	1	-	Ī	Ì	Ť	Î	1	+	1	t	1	1	Ť	i	1	1	1
2. Bachitle	1	i	1	1	1	1	1	1	1	T	Ì	İ	İ	i.	i	1	÷	1	i	Ť	i	1	1	
S. Delirium Tremens (Alcoholism)		1 1			1 1		1 1	-	Ti		Ħ	Ħ	Πİ	-			H	1 1	Ħ	H	1 1	H		1
4. Intemperance	+			1	1		T	-	F	1	İ	T	-	Ť	Ť	t	Ť	1	i	Ť	1	01	1	1
L-ORDER 4. Parasitic	-		-	- 1	-	- 1	1		T	- 1	-	T	i	Ť	1	04	i	1	Ť	1	i	Ì	- 1	- 1
1. Thrush	-	-	-	1	1	1	1	1	1	1	F	1	1	1	1	-	1	1	1	1	Ì	1	1	-
2. Worms	+	_	_	1	-	1	i	1	1	T	Ì	1	1	t	1	-	1	+	1	1	i	1	T	- 1
3. Disease of Scalp	+	1	1	1	-	T	1	1	1	1	İ	Ì	1	÷	1	1	1	1	1	Ť	Ť	4	1	
CLASS II.—COMSTITUTIONAL		25	12	88	8	69	-	9	8	-	101	10	60	8	6	8	37	*	9	23	H	46	7	-
IL-Order L Disthetic	-	20	=	10	7			80	24	-	12	01	-	6	-	12	Ħ	-	8	9	-	23	64	90

1. Gout	1	i	7	+		1	1	1	1	1	1	7	1	-	1	-	:	1	1	1	1	i
(Ansmis	1	-		01	99	_	-	00	1	*	-	- 1	60	1	-		4	10	-	19	-	•
\$\frac{\alpha}{\text{Dropsy}}	10	-	10	10	6	1	9	9	-	10	- 1	-			_		7	-	1	C.I	1	1
3. Cancer	00	01	10	н	-	-!	-	-	-	10	-	1	100	-	**		6	- 1	-	64	_:	61
4. Noms (Canker)	1	-	- 1	01	-	1	1		1	H	;	-	-		-		- ;	-	i	1	- ;	64
% Aortification	1	İ	1	+	- 1	1	1	Ġ\$	1	-	1	1	1	-		'	1	1	1	1		i
IL-Order Tubercular	88	98	10	38	22	64	88	9	- 1	88	99	04	96	8 47	98	•	40	7	-1	22	10	8
1. Scrofuls	1	i	1	-		1	00	-	1	*	:	:	·	1	_		-	1	1	1	4	i
2. Consumption of Bowels	CH	1	1	+	1	1	1	00	-	10	+	1	-	80	-		63	1	1	1	-	i
3. Phthisis (Consumption of Lungs)	98	17	10	27	75	2	35	98	1	74	00	01	75	8	25	-	8	7	1	23	*	10
4. Hydrocephalua.	1	24	-	1	,	1	1	1	1	-	÷	1	-	1	1	•	-	1	-	1	1	:
5. Maraemue	1	-	1	1	1	:	1	1	1	1	1	1	1	+	1	•	1	1	1	1	1	-
CLASS III.—LOCAL DISEASES	72	47	81	90	68	=======================================	108	112	7	143	21	0	-	110	89	69	74	14	01	99	25	92
III -ORDER 1 Nervous System	81	13	00	34	13	1 3	100	40	-	3	01	*	11	4	2	•	23	10	1	30	10	•
1. Cephalitis	+	30	-	+	4	1	00	*	1	7	1	-	+	-		. •	10	80	1	11	04	, 1
2. Apoplexy	10	Ť	1	1	п	1	1	01	İ	:	÷	:	01	_	_	. *:	61	1	1	1	1	;
3. Paralysis	7	01	1	10	9	1	6	9	1	-	+	1.	61	2 13	20	*	61	1	1	-	-	
4. Insanity.	1	i	1	+		1	1	-	i	1	1	:		_	1		1	1	1	1	1	i
5. Chores	1	1	1	1	-	1	1	;	T	1	;	:	·	1	1	•	1	1	1	1	1	į
& Domentia, Epiloptic	1	i		1	1	1	i	-	İ	1	÷	3		1		1.	1	1	-	1	1	į
(Epilopsy	1	Ť	:	:	64	1	1	64	1	-	:	-	-	1	1	•	. :	1	i	-	1	:
7. Tetanus	1	†	1	1	1	1	1	1	İ	:	+	1		1	1		1	1	i	i	1	į
Convulsions	1	*	01	64	-	1	*	*	1	77	-	н	00	60	-	1.00	80	1	1	-	-	
8 Hysteria	i	İ	1	1	11	ļ	1	1	i	1	+	1		1	1		64	1	1	1	1	i
Spasm of Glottis	1	İ	1	1	-	1	1	1	İ	1	+	1	÷	1	1		1	1	1	1	1	:
Srain Diseases	CH	Ť	1	9	4	1	*	7	1	9	-			9	90	*	60	1	1	2	-	20
Dropsy of Brain.	1. 1	-	-	-	-	_	64	CQ.		F	-	3	69	~		_	1	1	-	63	3	11

TABLE XVI.—Continued.—Causes of Death, Classified.

											3	COUNTIES	ۇ									٠	
CAUSES OF DEATH,—1874	Hilledale.	Houghton.	Huron	Ingham,	Lonine	Losco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent	Keweenaw.	Lake	Lapeer	Leelanaw.	Lenawee,	Livingston.	-	Macomb.	Manistee	Manitou.	Marquette.	Mason, Mecusta,
10. Spinal Fever				*	-	1	-		04	-	10	1	-	-		-		1 3	-		1 1	1 1	1
11. Spotted Fever	1	1	- !	1	1	1	i	1	1	1	1	1	1	:	1	1	-	1	-1	1	÷	1	1
12. Noningitis	1	1	1	F	1	1	i	1	i	1	÷	1	1	-	+	-	1	+	-	- 1	i	-	İ
13. Meningitis, Cerebro-spinal	1	00	1	1	1	1	1	40	i	1	-	+	1	-	1	-	-	1	-	1	1	G4	1
14. Meningitis, Spinal	-	-	1	01	i	1	1	00	-	1	63	-	1	1		10	1	_	1		1	+	1
15. Neuralgia	- 1	1	1	-	-	i	i	1	1	-	1	-	1	- 1	1	1	-	- 1	- 1	1	÷	- :	1
16. Spine Disease	64	1	-	9	-	1	04	9	C.	-	4	1	-	00	-	O1	01	:	-	- 1	+	1	1
17. Spine, Indammation of	1			1	-	i	Ť	i	1	1	+	÷	+	+	+	:	-		-	1	+	1	÷
ls. Frightened	1	i	1	1	Ì	Ì	i	1	1	+	1	+	1	1	1	1	1		1	:	i	1	i
III ORDER 2. Organs of Circulation	9	00	01	00	90	-	1	15	00	-	18	~	-	6	1	01		-	15	-	1	9	-
1. Pericarditis		1		64	*	i	1	9	-	1	4	+	+	+	1	-	P0	1	60	1	+	1	÷
2 Aneurism	1	1	i	1	1	î	i	1	1	1	1	1	+	1	1	1	1	1	1	1	÷	-	1
3. Heart Disease	9	00	Ç4	9	*	-	1	6	-	-	2	-	-	6	:	=	*	-	6	-	1	9	-
4. Emboli	1	1	1	T	1	Ť	1	1	1	+	1	1	1	1	1	1	1	+	1	+	+	+	÷
IIIORDER & Respiratory Organs	88	16	10	45	98	-	9	36	43	-	7	00	01	83	90	330	25	-	75	01	:	53	00
1. Epistaxis	1	1	1	1	1	1	1	1	1	1	:	1	1	1	1	1	1	1	1	1	+	1	÷
2. Laryngitis	1	1	1	1	İ	i	1	÷	1	1	1	1	1	1	:	-	1	1	1	7	÷	+	+
3. Bronchitis	!	94	-	00	01	1	H	1	-	+	1	01		-	1	-	-	1	9	-		-	-
4. Plenrisv		-						0		-	,	1	-	,	-		_				-		-

2 Paeumonia	1 24 12	89	37	:	7	54	1 40	33	7	a	18	60	27	50	=	14	61	72	16	-
Asthma		-	1	1		-	- 1	1	1	-)	64	1	H	-	-	1		1	1	
7. Lung Diseases	t-	1	40	-	1	F	01			A	-	1	6	60	1	90				i
III -ORDER 4. Digestive Organs	-	9	10	23	01	18		27	40	01	=	01	6	-	-	12	9	01	9	20
Gastritis	-	1	-	-	- 1		1	60	-	. 1	-	i	+	1	1	1	.)	- 1	1	
Throat Disease	-		-	t		1	1	-	-	•	1	1	1	1	:	•	-	1	1	
Throat, Putrid Sore	1	1	1	1	1	1	1	i	!	4	1	1	1	+	1			1	1	
2 Enteritis	800	1	G4	60	-	-	01		1	01	94	1	4	10	1	9	93		_	-
3. Peritonitis	1	64	1	1		-	1	1	-	1	-	1	-	1	1		1.0	1	1	
Ascites	1	1	1	-			-	1	****		1	1	-	1	1	:		i		_
5. Ulceration of Intestines	1	1	1	-	1	1	г	i	-		+	1	1	1	+	1	- 1	1	-	_
6. Hernia	1	1	1	7	-		- 1	i	1	.)	1	1	1	1	1	1		1	1	100
7. Obstruction of Bowels	1	1	1	1		1	1	i	1	•	1	Ť	1	1	+	:	,	1	1	
8 Intussusception	1	-	+	1	1	_	1	1	1	1	+	+	1	1	1			1	1	
9. Stricture of Intestines	1	1	1	+	1	1	1	i	1		+	1	1	÷	;	-	- 10	-	1	
10. Fistula	1	1	1		1	1	1	1	1	,	:	1	÷	+	+			1	1	
Il. Stomach Diseases	1		O1	-		**	*	9	1	. !	;	1	01	÷	1	1		1	1	-
12 Pancreas Diseases	1	1	1	1	1	1	1	i	1	1	1	1	1	+	;	-1	-	1	1	i
13. Hepatitis	1	1	1	1	1	1	7	1	1	. 1	1	+	1	+	1	1	10	1	1	
14. Jaundice	1	01	1	1	1	1	1	C1	1		-	-	+	+	1			i	i	i
13. Liver Diseases	г	1 1	-	01	1	-	1	10	1		9	-	н	G)		7	н	04	-	
is. Spleen Diseases	1	1	;	1		1	- 1	1	1	,	1	+	1	1	1	- 1		1	-	
17. Bowel Diseases, etc	1		1	01		01	-	C9	1		-	1	+	1	141	-	п	1	1	
18 Mouth Disease	1	1	4	+	1	1	1	1	1		1	+	1	+	1	1		1	1	
IIIOrder 5. Urinary Organs	01	1	04	9	1	30	80	0	63		9	1	10	10	-	4	- 10	0	1	-
1. Nephritis	1	1	1	-	-		1	1	-		69	+	÷	+	+	:		1	1	
2 Ischuria	1	1	1	1		1	1	-	. !		1	+	1	1	-	-:		1	1	i

TABLE XVI.—Continued.—Causes of Death, Classified.

											8	Countier	128										
CAUSES OF DEATH,—1874.	Hillsdale.	Houghton.	Huron.	Ingham.	Jonia.	Losco.	Jashella,	Jackson,	Kalamazoo	Kalkaska.	Kent		Lake.	Lapeer.	Leelanaw,	Lenawee,	Livingston. Mackinac.		Manistee.	Maniton.	Marquette	Mason.	Mecosta
3. Bright's Disease of Kidneys	1	1	1	1	17	11	1	-	91	1		1 01		1 01	1 1	1 1	1 1	1 :	1 1	1 1	1 1	1 :	1 1
4. Diabetes	-	1	- }	-	-	1	i	1	10	1	-	- :	1	- 1	:	01	-	-	1	1		-	-
5. Calculus (Gravel, etc.)	1	1	1	-	1	1	1	1	1	1	1	+	1	64	1	-	-		-	1	+	- 1	-
6. Oystutis	1	-	1	64	-	i	i	1	1	1	-	1	i	÷	+	1	-	+	+	+	-	-!	+
7. Kidney Diseases	-	1	1	1	-	İ	1	-	÷	1	01	+	i	1	1	01	C1	:	60	1	- 1	1	
III,-ORDER 6. Generative Organs		-	1	- 1	-	1	i	1	- F	1	-	- 1	-	1	- 1	1	- 1	- ;	- 1	- !	- !	1	-
(Ovarian Dropsy	1		1	1	i	İ	i	1	+	Ť	1	+	t	+	+	+	1	- :	1	1	+	1	- 1
Ovarian Tumor	1	1	1	1	1	i	1	1	1	1	н	1	-	1	+	1	1	1	1	1	1	1	1
Diseases of Uterus	1	1	1	-	-	Ì	i	1	-	1	-	÷	÷	1	1	1	1	-	1	+	+	_	-
Hydrocele	1	1	1	1	İ	1	Ť	-	-	Ť	1	1	1	-	1	1	1	1	1	1	-	1	+
IIIORDER 7. Organs of Locomotion	1	- 1	- 1	-	-	1	i	1	-	+	- ;	+	- :	1	1	- 1	- 1	-	1	-	1	1	-
, Arthritis	1	i	1	1	İ	ï	÷	1	+	÷	1	+	t	+	1	+	-	1	+	i	1	-	-
Bones, Disease of	1	-	1	1	i	i	i	1	+	1	-	1	1	+	1	+	1	1	1	1	1	1	1
2 Joint Diseases	1	-		1	-	Ť	Ť	1	-	÷	1	1	_	+	1	-	1	!	!	i	1	1	1
IIIORDER 8. Integumentary System	01	-	1	1	00	-	1	-	1	1		- 1	:	-		-	-		-	1	-	-	1
1. Phlegmon	1	1	1	- 1	00	1	1	-	1	1	1			-			1	,	-	1	<u>i</u>	1	1
2 Ulcer	i	-	1	1	i	1	÷		+	1	1	1	- 1	-		-	1	1	1		$\stackrel{!}{ o}$	i	1
3, Skin Diseases	69	1	1	i	4	i	÷	1	+	1	-	1	+	1		1	1	+	1		<u>:</u>	1	+
CLASS IV DEVELOPMENTAL DISEASES	12	21	90	83	24	01	4	36	22	-	75	-		191	20	31 9	06	00	93	0	8		

IVORDER 1. Developm'l Diseases of Children	-	91	10	80	6	1	91	13	15	=	43	9	O1	99	00	9	÷	1	11	+	-	65	04	
L Still-born	_	1	10	1	1.	1	-	6	11	-	8	9	64	00	64	9	-	1	=	00	1	22	-	+
Infantile Premature Birth	1-1			-	01		- 1	- 1	+	1 1	10 01	11	ii	1		- 1	-		+ 1		1 1		1 1	1 1
3 Cyanosis	- 1	- !	- 1	- [i	1	Ť	1	;	1	1	1	1	-	÷	1	- 1	- 1	1	i	+	+	1	1
4. Spina Biffda	1	1	1	1	1	i	1	1	1	1		1	i	+	÷	÷	+	÷	1	+	+	÷	1	В
5. Other Malformations	1	i	1	1	1	1	i	1	÷	1	-	i	÷	÷	÷	+	+	÷	÷	+	+	- 1	÷	1
6. Teething	1	20	1	Ì	1	i	1	04	-	1	*	i	1	1	+	+	-	÷	1	-	1	9	-	7
7. Injury at Birth	1	1	1	1	Ī	1	i	İ	+	+	÷	i	÷	÷	+	+	+	+	+	+	+	+	+	1
IV ORDER 2. Developm'l Diseases of Women	00	60	п	*	0	01	1	4	4	1	12	1	64	10	-	-	-	04	60	61	H	10	60	-
Dysmenorrhea	1	1	1			ir	i	1	1	+	+	1	+	1	+	1	1	+	+	1	+	+	:	1
Childbirth	0+	60	7	*	10	-	1	*	*	- 1	10	-	01	10	-	60	-	01	89	01	-	40	00	-
2. Abortion	:	1	1	i	1	1	-	-	1	- 1	91	+	÷	÷		-	-	+	-	+	+	+	+	nt
Uterine Hemorrhage	1	1	- 1	i	1	-	1	1	1	1	+	1	+	1	+	+	+	1	+	+	4	4	+	
IVORDER 3. Developm'l Diseases of Old People	90	01	01	90	10	1	.04	30	=	:	98	-	1	-	-	15	00	-	6	63	9	10	-	90
1. Old Age	00	04	01	10	10	1	01	10	=	-	20	+	1	1-	-	13	60	-	6	85	01	10	-	00
IVOnder 4. Diseases of Nutrition	1	- 1	1	i	1	1	- 1	1	1	1	- 1	1	+	+	- 1	- 1	- 1	- 1	- 1	-1	- !	- 1	+	1
l. Atrophy and Debility		1	1	1	i	+	+	1	1	1	-	+	+	+	1	+	1	1	+	+		+	1	:
CLASS VVIOLENT DEATHS	6	19	00	0	12	13	64	10	12	-1	98	13	-	6	63	90	10		20	01	01	81	60	64
V ORDER I. Accident or Negligence	*	2	10	40	23	=	01	60	9	-	13	6	1	*	CI	-	60	1	1	1	-	+	7	Q1
1. Fractures and Contusions	1	00	1		-	+	1	-	-	-1	Q4	H	÷	1	-	-	1	-	99	1	-	01	÷	
2. Wounds	-	1	-	1	1	-	1	1	+	-	-	1	+	+	+	1	-	+	1	+	-	Ļ	1	1
3. Burns and Scalds	-	C1	01	-	1	99	-	-	64	+	1	÷	-	01	-	-	-	-	03	+	+	÷		-
4. Poison	1	1	-	-	T	-	1	-	-		-	+	÷	+	÷	+	÷	-	-	1	1	+	+	1
5. Drowning	1	9	-	1	00	9	1	1	-		*	-	1	-	-	01	-	-	-	1		9	-	-
					-	-	2	-	-	-	-	-	-	-	-		inet	-	-	-	_	-	_	

TABLE XVI.—Continued.—Causes of Death, Classified.

EATH,—1874.	_																				
	Honghton.	Нотоп.	Ingham. Ionia.	Losco.	Isabella	Jackson.	Kalamazoo,	Kalkaska,	Kent	Keweenaw.	Lake,	Leolanaw.	Lenawee.	Livingston.	Mackinac	Macomb.	-	Maniston	Manitou.	Marquette.	Mason, Mecosta,
		1	69					1	-		1		1		1	1	1		- 3	G9	1
7. Otherwise	10	+	-	90	-	1	00	1	*	-	1	01	+		-	1	1	÷	,	-	+
VOrder 2. In Battle	1	\pm	-	1			1	i	Ť	1	Ť	+	- 1	-1	1	1	1	1	+	1	i
VORDER & Homicide.	i	1	4	1	1	- 1	1	i	i	1	1	-	1	4	-	-	1	÷	1	-	1
1. Murder	İ	1	+	1	1	1	1	i	i	1	+	+	1	1	1	1	+	+	+	+	Ť
	1	69	+	1	1	-	-	1	01	0.0	T	69		4	+		-	+	1	H	Ť
J. Wounds	h	1 -				1		İ	1 01				1		1	1 1	1 1	1 1	1 1	1	
	_	1		_	_		- 1		i	1	1		-	- !		1	- 1			-	1
4. Hanging	İ	÷	+	1	-	-	- 1	1	i	i	1	-	1	1	1		:	-:	1	+	1
5. Otherwise and not Specified	1	-	+	1	1	1	-	Ì	1	61	1	-	i	+	+	1	1	1	-1	-	1
	-	$^{+}$	+	1	1	-	1	1	i	1	+	+	-	-	-1	1	1	+	t	1	+
Ι.	1	-	١.,	1	1.	1	1	1		-	;	: 0	1 .	i	1	1	-	: 0	-	1 0	1
Sudden, Cause Unknown.	•	-	. !			1	1	1	9	4	1	1	1 1			1	9 1	1 1	1 1	5 1	9 1
Unclassified	63	1	-	1	- 1	-	-	1	İ	1	1		1	- 1	-	1	1	1	1	+	1
Causes not Specified	42	22	31	30	*	88	30	9	62	00.	1	77	9	53	30	40	53	13	F	10	4

TABLE XVI.—Continued.—Causes of Death, Classified.

	ď,										-												
CAUSES OF DEATH,—1874.	Menominee	Midland.	Missankee	Мовгое.	Montesim,	Muskegon	Newaygo.	Осевпв.	Ontonagon.	Овсеоја	Ottawa.	Presque Isle.	.waniga2	Sanilac.	Schooleratt	Shlawassee,	St. Clair.	St. Joseph.	Tuscola,	Van Buren.	Washlenaw,	Маупе,	Wexford
All Causes	04	4	60	202	191	170	8	88	68	28 20	808		8 268	160	8	168	355	207	158	172	355	1868	18
Specified Causes	-	1 83	09	188	166	136	1 3	892	1 92	1 22	47 266		6 307	134	1 23	150	309	197	133	251	333	1659	18
Causes not Specified	-		1	22	83	35	10	11	19	-	62	1	560	58	49	88	46	10	83	19	23	208	
CLASSES.		1	İ	1	1	1	-	1	-	_	_								-				
IZymotic Diseases	1	11	H	23	24	7	18	25	:	-	12 103		1 90	9	60	9	109	19	5	88	80	497	90
IL-Constitutional Diseases	1	7	-	23	52	22	н	98	9	7	9	_	3 53		04	100	28	3	84	63	8	393	-
IIILocal Diseases	1	6	-	E	22	7	20	70	18	7	2 91	720	1 104	69		54	86		8	86	119	482	90
IV Developmental Discases	1	9	1	83	82	2	4	30	6	*	00	88	1 45	30	7		20	18	90	8	47	232	9
VViolent Deaths	1	C.	1	13	90	60	64	=	-	200	2	18	15	00	6,1	90	33	13	10	18	17	125	1
Unclassified	1	1	1	-	1	+	+	+	1	1	+	1		1	-	1	1	-	1	-	1	-	1
ORDERS.				_		_	-	_	_	_	_												
I,-I. Miasmatic Diseases	1	7	-	52	25	33	18	99	33		12 103		1 30	07	- 5	8	100	49	43	28	78	481	64
2. Enthetic Diseases	1	1	1	1	1	÷	÷	+	+	+	1	1	1	i	1	1	1	1	-		_	7	1
3. Dietic Diseases	- 1	1	1	-	1	-	1	-	1	- 1	1	4	1	i	- 1	-	1	61	-1	1	-	10	1
4. Parasitic Diseases	1	1	1	i	1	-	+	+	+	+	1	1	1	1	-	1	*	1	1	1	1	CI	-
IIl. Diathetic Diseases	- 1	-	1	00	9		-	27	01	,	99	14	3 17	7 14	1	15	8	10	10	18	8	101	- }
2. Tubercular Diseases		9		52	13	4	-	50	*		00	98	36	13	6	66	88	36	16	A.F.	44	939	

TABLE XVI.—Continued.—Causes of Death, Classified.

				.				-	-	8 .	COUNTIES.	麗.	. -	-			-	-	j-	-	-	1
CAUSES OF DEATH,—1874.	Menominee.	M'dlend.	Missaukee, Monroe,	Montcelm.	Muskegon.	Newsygo.	Oskland.	Осекпа	Ontonagon.	Osceola.	Ottawa.	Saginaw.	Sanilac.	Bchooleraft.	Shiawassee.	St. Clair.	St loseph	Tuecola.	Van Buren.	Wanbitenw.	Wayne.	Wexford.
III.—]. Diseases of Nervous System		-	-	81 	<u> </u>	-	\$	40	•	7	<u>;</u>	•	32 15		ន	83	ន	18	8	- 23	8	20
0	İ	<u>:</u> :	<u>:</u>	- 00	-	:	10	63	:	_	8		8		9	39	~	64	=	9	<u> </u>	
3. Diseases of Respiratory Organs	-	_	-	- 8	0	2	ਡ	~	_	10			35 16		17	81	8	11	8	- R	131	64
4. Diseases of Digestive Organs	ī	=	-	- 29	-	81	*	æ	01	~	<u>::</u>		8	7	80	60	2	2	=	7	16	9
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6. Diseases of Generative Organs	İ	<u>:</u>	<u>:</u>	÷	<u> </u>		_	÷	<u> </u>	÷	+	•	<u> </u>	<u> </u>	1	ī	i	÷	<u> </u>	-	-	;
7. Diseases of Organs of Locomotion	İ	-	<u>:</u>	<u> </u>	<u> </u>	1	1	$\frac{\cdot}{1}$	$\frac{\cdot}{1}$: -	$\frac{1}{1}$	<u>:</u>	<u>:</u>		:	i	Ť	Ť	- <u>-</u>	-		į
8. Diseases of Integumentary System	Ì		:	61		_	69	i	:	<u> </u>	64		61	1	64	1	T	-	<u> </u>	01	<u>:</u> 21	į
IV 1. Developmental Discases of Children				_ _	10 14	61	90	-	61	6	- 23		8		9	6	40	60	2	-17	119	4
2. Developmental Discases of Women		<u>;</u>	:	9	6	-	9	01	61	*	10		8			9	-CO	_	69	10	8	-
3. Developmental Diseases of Old People	_ <u>:</u>	-		- 22	10	61	11	89	<u> </u>	-		··	-	Ø1	-	91	00	•	10	21	11	-
4. Diseases of Nutrition		<u>:</u>	÷	<u> </u>	<u> </u>		Ī	÷	÷	<u>:</u>	+	<u>:</u>	<u>.</u>	<u> </u>	1		Ť	Ť	$\frac{\cdot}{1}$	÷	+	;
Vl. Accident or Negligence		69	-;		-	61		89	61	-64	- 27	= 	-		10	ä	₩	60	22	-	 ;	;
2. Battle	Ī	<u>:</u>	<u>:</u> -	<u>:</u>	<u> </u>		1	i	÷	 	+	+	<u> </u>	<u> </u>	-	1	Ť	Ė	÷	÷	÷	į
8. Homicide	Ì	-	-;	-	<u>.</u>	-	04	÷	$\frac{\cdot}{1}$	÷	$\frac{1}{1}$		<u> </u>	1	-	1	-	_	64	_	-	:
4. Suicide		+	-;	<u>:</u>	<u>.</u>		_	T	_	69	64	<u> </u>	-	1	_	ī	8	i	:	64	ᇎ	:
6. Execution.	i	$\frac{\cdot}{1}$	$\frac{1}{1}$	<u>:</u>	<u> </u>	:	1	-	-	<u>:</u>	+	+	<u> </u>	1	i	1	÷	÷	÷	÷	÷	:
6. Violent Deaths		-	;	60	64		64	-	<u> </u>	_	+	•	es .	-	64	6 0	4	_	89	-	<u>:</u> 8	:
OLASS L-ZYMOTIO		=	-	-8	2	81	22	8	-:	<u>- </u>	708	8	\$		\$	100	21	\$	8	8	<u> </u>	

1.—Order 1. Misematic	n -	H	29	941 3	6	99 89	233	1	15	103	_	8	40	01	85	100	6	43	58	78	181	04
Chicken.pox	1	1	1	1	- 1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	i	į
Small.pox	1	-	1	+	1	-	1	j	:	1	-	-	- 1	1	1	-	İ	-	į	;	G4	
2. Measles	1	1	- 1	-	-	-	1	1	- 1	04		-	,	-	-	-	-	4	- 1	-01	90	
3. Scarlatina			-	10	-	13		1	:	9	- 1	9	22	-	00	18	94	8	64	00	39	
4. Diphtheria	*	;	80	-	- 1		1	1	1	1	- 1	6	1	- [-	9	-	9	1	-	4	
6. Quinsy	-	1	1	+		1	- 1	-	1	2	i	1	- 1	-	1	1	İ	1	1	+	-	1
6. Croup	-		*	-	95	-	-		-	3	i	1	03	1	-	64	20	1	00	01	98	-
7. Whooping cough	1	1	:	-	-	_	**	-	- 1	5	-	27	-	1	00	22	*	-	9	01	16	1
Continued Fever	1	1	-	1		-	1	1	:	1	-	1	1	1	1	1	İ	1	1	;	İ	
Typhoid Fever	-	1	18	15	00	-	_	1	60	10	-1	25	7	1	1	17	100	*	11	50	88	
Typhus Fever		+	1	1		-	1	-	1	-	1	1	1	-	1	i	İ	1	;	;	64	1
Typho-malarial Fever	1	+	1	1	1		1	1	1	1	1	1	:	1	1	1	i	1	4	1	i	
Slood Poison	į	1	1	1			1	1		1	1	1	3	1	1	1	i		;	i	i	
. Erysipelas	:	1	01	10	-	_	1	-	7	10	į	-	1	-	-	-	01	1	60	01	120	
10. Puerperal Fever	1	†	;	01			1	1		*	1	-	1	1	1	-	01	-	01	61	00	
11. Carbuncle	1	i	-1	1	:		1	-	1	1	-	-		1	1	1	1	1	1	1	İ	
12. Induensa	1	1	1	1	- 1	- 1	1	1	1	1	- [i	1	1	1	1	Ì	1	1	1	Ť	1
12. Dysentery	00	-	De.	9	50	-	21	1		14	1	00	D4	1	4	2	-	1	+	=	H	1
14. Diarrhes	-	1	00	-	E9		01	i	10	14		14	10	1	-	15	9	1	П	п	137	-
15. Cholers Infantum	-	1	10	9	01	~	20	1	1	10	j	01	-	1	9	00	3	1	21	53	33	1
Cholers Morbus	1	:	н	+	-		1	1		1	i	61	04	1	1	1	İ	1	:	H	H	1
Cholera	1	1	1	+		-1	1	- 1		-	1	1		T	1	1	ī	-	1	1	i	L
17. Ague	1	1	9	60	-		_	1		9	1	90	01	1	4	*	01	1	10	4	-	i
Pover	-	1	*	69		-	ı	1	1	01	-	60	1	1	-	10	-	1	п	00	-	
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19. Rheumatism	i	t	1	4	-	_	1	I	÷	-	1	-	-	п	-	-	÷	i	-	4	6	i
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TABLE XVI.—Continued.—Causes of Death, Classified.

											8	COUNTIES	4 3										
OAUSES OF DEATH,—1874.	Menominee,	.banfbild	Missaukce.	Monroe.	Montealm.	Muskegon.	Noway.Ro.	.banland.	Осемая.	Ontonagon.	Osceola.	ottawa.	Presque Isle. Saginaw.	Sanilac	Schooleraft.	Shinwassee.	St. Clair.	St. Joseph.	Tuecola.	Van Buren.	.wanstdeaW	Wayne.	Wexford.
L-Onder 2. Enthetic	1	i			1		i	i	1	1	1	1	1	- 1		1	_				_	7	:
1. Syphilis	1	1	1	1	1	1	i	i	1	1	1	1	1	-	1	1	1	1	-	- !	_	7	
Stricture of Urethra	1	1	1	1	1	1	Ť	i	+	1	-;	1	1	1	1	1	1	1	1	1	- 1	1	
Stricture	1	-	1	1	1	ī	i	i	1	+	-	:	-	-	- !	1	1	1	-	:	1	1	_ :
8. Hydrophobia	**	1	1	1	1	1	i	i	1	1		1	-:	-	-	1	1	1		1	4	1	i
4. Glanders	1	1	1	1	1	Ī	İ	Ť	1	Ť	÷	1	1	1	1	1	1	1	1	1	÷	1	
L-Order & Dietic	- 1	ı		-	1	-	1	-	1	-:	1	- 1	- 1	-	-		-	G.	_	1	-	7	
l. Privation	1	i	- 1	-	-	- 1	1	1	1	1	- 1	1	+	1	- ;	- !	-	-	- 1		-1	1	
Purpura	1	- 1	- }	1	1	1	1	-	1	1	÷	1	1	1	1	- 1	1	1	i	- ;	- 1		
2 Rachitis	1	i	1	1	1	1	i	i	1	+	1	+	:	+	1	1	1	1	-	- !	+	1	
Scury	1	1	1	1	1	1	İ	1	1	+	1	+	÷	+	-	1	1	1	į	1	- 1	1	
3. Delirium Tremens (Alcoholism)	1	1	1	-	1	-	İ	İ	1	+	i	+	1	-	1	_	_	1		-	_	7	
4. Intemperance	1	1	1	T	1	1	1	Ť	1	t	÷	t	1	+	+	<u>i</u>	1	01	1	!	:	9	<u></u>
L-Order & Parasitic	- 1	1	1	- 1	1	-	ì	1	1	1	1	1	+	1	-		-	1		1	- ;	Ç4	_
1 Thrush	1	1	1	1	1	1	İ	1	1	1	1	+	+	1	+	1	1	1	1	1	1		
2, Worms	1	1	1	1	1	-	i	1	1	1	+	1	1	1	1			1	1	1	. :		
2. Disease of Scalp	1	1	1	1		1	i	Ť	1	1	-1	1	÷	+	+	+	1	1	1	1	1		
CLASS IL—CONSTITUTIONAL	- !	7	1	88	8	2	-	99	9	-	9	=	100	23	22	60	84 58	8 87	8	8	69	855	_
IIOrden 1. Disthetic	_	_	_	60	190	6		27	69		60	7	- 00	14	14	-	20		9	18	22	101	i

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ole nof Lungs) 6		1	OH.	1	+	-	-	1	1	1	н	•	Г	т	1	1	1	-	4	1
els a of Lungs) 6 6 6 6	1	İ	Ì	1	-	1	1	:	1	1			01	:	-	1	-	*	64	1
ole of Lungs)	8	119	15	-	39	7	60	8	1	36	123	04	61	88	30	16	45	3	550	-
o of Lungs)	_	İ	1	1	69	-	- 4		1	1	- 1		1	-	:	-	0	-	1	7
n of Lungs)	1	İ	i	1	1	-		-	-	-	- (1	;	1	1	1	7	4	
.E5	8	19	15	F	37	4		88	1	8	13	64	20	37	30	14	40	45	217	1
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ystem 7 7	1	İ	Ì	1	1	1	1	1	1	1	-		04	1	:	7	1	i	Ť	1
yetem 7	1111	25	7	8	701	18	1 16	73	-	100	49	-	2	86	30	92	86	119	485	90
	2	22	13	9	45	**		8	1	33	13	- 4	8	65	65	18	50	4	203	**
1. Cepbalitis	- 14	13	-	-	9	49	01	21	1	9	69		9	10	00	63	*	6	46	-
2 Apoplexy 1	Q4	1	-	;	*	1	-	1	1	-	1	3.5	01	1	0	1	г	04	00	1
8. Paralysis	64	1	63	п	t-	1	1	04	1	04	1	1	-	00	*	80	60	90	16	ı,
4. Insanity	1	1	1	1	+	1	1	60	1	1	1	- 1	-	1	i	1	1	1	60	
5. Chores	1	1	1	1	1	+	1	1	-	1	1		1	1	1	1	:	1	i	
, Dementis, Epileptic	1	i	1	1	1	1	4	- 1	1	1	1	- 3	1	1	1	1	1	1	1	1
Epilopey	1	1	-	1	7	-	-	_	1	1	1	. !	1	i	-	1	1	-	-	1
7. Totanus	-	1	T	1	1	1	1	1	i	i	i	1.5	i	ì	F	1	1	-	61	1
(Convulsions	1	*	=	п	7	1	-	-	1	17	4	1.5	4	*	00	*	¥	=	22	1
8. Hystoria.	4	1	-	1	1	1	1	-	1	1	i	:	1	1	i	1	1	1	1	- 3
Spasm of Glottis	1	1	1	1	+	1	1	1	1	1	1		1	ŧ	1	1	;	1	1	1
Strain Diseases.	1	03	69	1	10	1		-	1	-	01	t	9	0	-	64	04	O4	22	1
Dropey of Brain	-	-	i	F	-	-	1	1	1	1	1	. 1	1	01	1	1	01	1	15	

TABLE XVI.—Continued.—Causes of Death, Classified.

	_4										Con	COUNTIES.	.83										
CAUSES OF DEATH,—1874.	Menominec	Midland.	Missankee.	Monroe.	Montcalm.	Muskegon.	Newayso.	Oakland	Oceana, Ontonagon,	Oscoola	Ottawa,	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawasseo,	St. Clair,	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne	Wexford,
10. Spinal Ferer	- 1	-		4	9	-	-	**	4			1	1		1	_		-	01		-	-	-
11. Spotted Fever	i	-	1	- [1	Ť	1	-:	+	1	1	1	-!	1	!	1	1		1	1	_		<u></u>
12. Meningitis	1	1	-	1	i	1	+	1	+	1	- 1	1	-!	- 1	-	1	4	1	1	1	1	-	- ;
13. Meningitis, Cerebro-Spinal	1	- }	;	Ì	i	1	i	*	- 1	1	1		-!	- 1	1	-		-	_	-	-	1	-
14 Meningitis, Spinal	-	1	1	1	04	1	1	-	+	1		01	-	1	1		64	1		60	60		9
15. Neuralgia	1	-	1	i	i	1	п	-	+	1	-	1	1		-	- ;	-	-	1	1	1	1	+
16. Spine Disease	-	- 1	ì	81	60	1	7	-	+	i	_!	- 1			9		-	-	01	1		_	10
17. Spine, Inflammation of	1	-	- 1	1	i	i	1	-	1	1	-!	1	1	_	_	1	1	-	1	1	1	1	
18, Frightened	1	1	-	1	İ	1	1	1	+	1	1	-	1	1	1	1	1	1	1	1	1	1	1
IIIORDER 2 Organs of Circulation	- 1		1	00		7	-	10	00	,	-	9	7		00		9	9		67	16		20
1. Pericarditis	1	1		1	01	1	+	1	-	1				04	-		-	01	1	61	_		90
2. Aneurism	1	1	- 1	İ	1	1	1	+	+	- 1	1	1	1	1	i	1	1	1	1	j	T.	1	1
3. Heart Disease	-	1	1	90	20	+	1	10	94		7	10	1 12		1		5 17		9	01	9 15		63
4. Emboli	1	1	1	İ	Ť	1	+	1	1	1	+	1	1	1	1	1	1	1	1	1	-	1	1
III -ORDER 3. Respiratory Organs	1	-	-	81	17	10	10	=	1-	_	-	91	8	3 16	:	17	7	95	17	89	55	131	-
1. Epistaxis	-	1	-	1	1	1	1	1	-	i	1	!	1	-	1	1	1	1	1	1	1	1	- 1
2. Laryngitis	î	1	ì	i	Ì	1	+	1	-	- 1	1	-	1	1	1	1	1	1	1	1	1	1	1
& Bronchitis	!	1	-	-	÷	1	1	1	- 1	1	-	-	1	1	1			7	1			_	90
4. Pleurisy						1		80		_	_					_			ì				10

g. Preumonia	i	1	-	55	10	-	19	90	-	9	13		22	16	-	111 20	84	2	37	27	77	64
6. Asthma	1	i	1	1	- !	-		_	1	1	1	- 1	1	-	- :	_	1	_	-	61	04	1
7. Lung Diseases	1	1	1	9	-	69	*	-	-	1	1	-	00	1		93	.00	*	8	9	4	
III ORDER 4. Digestive Organs	1	г	1	35	00		04	11	64	60	18	-	18	10	-	80	15	9	=	14	57	90
(Gastritis	i	I	1	+	- 1		-	1	1	-	-	-	1	-	_!	1	_	-	1	:	60	1
1. Throat Disease	!	1	i	H	1	-		_	- 1	- [1	_	-	_	4	-	_	1	1	-1	20	1
Throat, Putrid Sore	1	1	1	-1	-	-	1	1	1	-	1	-:	+	1	_	1	1	- (1	·	1
2. Enteritis	1	1	1	9	10	-	_	_	-	-	00		10	01			10	01	00	6	19	01
3. Peritonitis	1	1	1		+	1	1	1	1	1	1	-	01	1	1	1	i	1	1	- 1	:	1
4. Ascites	1	1	1		1	1		1	-	1	•	- 1	-	1	1	1	i	1	1	1	= }:	1
5. Ulceration of Intestines	1	1	1	1	+	1	1	1	1	-	1	-	÷	1	1	1	j	1	1	1	1)
6. Hernia	1	1	1	1	1	1	1	1	1	1	1)	+	1	1	1	1	-	-	1	01	i
7. Obstruction of Bowels	1	-1	- 1	1	<u>.</u>	1	1	1	1	1	1	_!	+	4	1	1	-	- 1	1	1	1	1
8. Intustusception	1	1	1	1	+	-	1	1	-	1	1	1	+	1	4	1	1	:	1	- 1	1	1
9. Stricture of Intestines	1	Ì	- 1	:	+	+	1	1	1	1	1	:	1	1	1	_	1	:	1	1	1	1
10. Fistula	1	Ì	i	1	+	+	4	į	1	T	1	į	+	1	1	1	1	1	1	1	-1	1
11. Stomach Diseases	1	Ì	1	04		4		01	- 1	1	4		-	1	_	64	61	40	-	C)	10	-
12. Pancreas Diseases	1	İ	1	1	1	-	1	1	1	1	1	- 1.	1	_	1	1	-	:	1	1	1	1
13. Hepatitis	1	İ	1	1	1	+	_	i	1	1	1	1	+	1	i	1		1	1	1	01	1
14. Jaundice	1	i	-	- 1	-	+	-	1	-	1	1	- 1	-	_	1	1	_	1	J	1	80	1
15. Liver Diseases	1	i	i	10	09	-	-	1	- 1	-	Ø1	_	*	-	_	1	-		50	- 1	22	1
16. Spleen Diseases	1	1	1	1		-	1	1	-	1	1	i	1	1	1	1	1	:	1	- 1	1	-
17. Bowel Diseases, etc	1	F	1	01		-	1	1	1	1	09	i	1	1	1	-	01	!	1	60	63	1
18. Mouth Disease	1	i	1	1	!	+	1	1	1	İ	1	1	+	1	1	1	1	÷	1	1	1	1
IIIORDER & Urinary Organs	1	İ	1	01	61	65		1	1	-	-		01		-	10	80	63	04	9	00	1
1. Nephritis	1	İ	1	1	1	1	1	i	1	T	Ì	1	F		1	1	1	1	-	7	н	i
2. Ischuria	1	İ	i	1	1	+	1	i	1	T	1	1	1	4	1	1	T	1	1	Ť	1	j
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TABLE XVI.—Continued.—Causes of Death, Classified.

CAUSES OF DEATH,—1874. 3. Bright's Discase of Kidneys. 4. Diabetes.					1										-								
2. Bright's Discase of Kidneys	Menominee,	Midland.	Missaukee.	Monroe	Montcalm,	Muskegon.	Newaygo.	Oukland,	Oceana, Ontonagon,		Osceola,	Ottawa, Presque Isle,		Saginaw.	Schooleraft.	Shiawassee.	St. Chair.	St. Joseph.	Tuecola,	Van Buren.	Washtenaw.	-	Wayne.
4. Diabetes	1			7	i	i	1	F	- 1	-	1	1		- 1						-	-	:	O4
	1	1	1	1	-	-	1	1	- 1	- ;	;	-	,	1		-	_	-	1	-1	-	01	
6. Calculus (Gravel, etc.)	1	-1	1	-	-	i	1	-	-	+	+	- 1	19	-	1	- 1			-	1	-	п	Q\$
6. Cyatitis	1	1	1	1	1	1	1	-	-	+	-	-	_	-	-		1	- 1	1	1		н	-
7. Kidney Diseases	1	1		-	1	04	-	-	1	+	+	+	1	-	1	_	-		01	01	1	-	01
III ORDER & Generative Organs			-	1	i	1	-	-	-1			-	-	-	1	_	- 1	- 1	- 1	- 1	1	н	H
, Ovarian Dropsy	1	-1	1	1	i	1	1	1	- 1	+	+	1	1.5	1	1	- 7	- 1	į	1	1	1	4	1
Ovarian Tumor	-	1	-	i	İ	i	i	1	1	+	+	-	_	1	1	-	- 1	į	1	1	1	1	1
) Diseases of Uterus	1	-	1	1	i	i	1	-	-	1	1	1		-	1	-	:	1	1	1	1	н	
- Hydrocele	1	1		1	İ	1	1	1	1	+	+	1	-	-	1	4	1.	1	1	1	1	-1	1
IIIORDER 7. Organs of Locomotion	1	-1	i	i	i	-	1	1	1	1	+	1	7	1	1		- 1	- [1	1		-	- 1
1 \ Arthritis	1	1	1	1	i	Ť	1	1	1	+	+	1	1	1	1	1	1	÷	1	+	1	1	1
Bones, Disease of	1	1	I	i	1	7	1	1	-	1	1	1	•	1	1		3.	1	1	1	1	1	1
2 Joint Diseases.	1	1	1	Ť	İ	1	t	1	1	- 1	1	1		+	1		-	į	1	1	:	-	1
III.—Order & Integumentary System		1	1	91	-	1	-	64	- 1	- ;	1	01		91	91		C1	•	4		- 1	01	. 21
1. Phlegmon	1	1	1	1	-	1	Ť	1	- 1	- 1	1	-		61	-		01		60	-	1	-	10
2 Ulcer	1	1	1	-	i	1	1	1	1	- ;	+	-	- 1	- 1	1	_			-			- 1	1
2. Skin Discases.	1	1	1	ot	i	1	-	04	1	1	1	1	,	1			- 1	- 1		- 0		Ç4	t ~
CLASS IV,—DEVELOPMENTAL DISEASES	_	- 9	-	8	64	55	-	30	6	-	- ao	- 58	-	129	101	_	14	31	18	80	8	47	232

IV ORDER I. Developmental Dis. of Children.	1	9	Ī	9	10	14	61	80	•	c.	9	10	=	34	00	9	19	6	19	60	12	211	191	4
1. Still-born	1	49	i	9	97	0	61		*	94	ю	13	-	98	90	10	10	00	10	60	4	16	7.4	4
(Infantile	1	- 1	1	;	1	*	-	1	1	1	1	1	1	-	-	- 1	1	1	1	1	-	- 1	-	:
? { Premature Birth	1	-	1	-1	1	i	1	-	1	-	i	1	- 1	-	- 1	+	+	+	1	- 1	10	-	**	:
3. Cyanonie	1	- 1	1	1	T	1	1	1	1	1	i	1	-	-1	- 1	+	1	1	1	1	+	-	:	;
4. Spins Bifids	-	1	1		1	i	1	7	1	1	i	+	1	1	1	1	+	+	1		+	1		:
5. Other Malformations	1	1	1	-1	1	i	-	1	1	1	- 1	1	:	;	:	1	1	1	T	-1	01	1		:
6. Teething.	1	1	-	:	1	0	1	Ť	i	1	1	63	1	Þ	- !	1	-	-	:	1	1	•	88	:
7. Injury at Buth	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	+	1	1	1	÷	1	1	:
IVORDER 2. Developm'l Dia, of Women	1	-	j	9	o	01	1	10	01	01	63	10	1	90	60	1	-	φ	10	-	00	10	36	-
Dysmenorrhes	1	i	1	- 1	1	1		1	1	1	i	+	1	. 1	-	1	+	÷	1		+	1	- 1	:
Tarn of Life	1	- 1	1	1	-	i	1	1	1	1	i	1	1		:	+	1	+	1	1	+	1	- 1	:
Obildbirth	1	-	i	10	6	Q1	1	10	-	1	63	2	1	00	Q4		1	9	10	н	60	10	23	-
2 Abortion	1	1	1	:	i	1	1	-	-	1	i	1	- 1	1	1	1	+	+	+	1	+	1	*	:
Uterine Hemorrhage	1		1	1	1	İ	1	:	1	Q1	i	1	1	- 1	н	1	1	1	1	1	÷	1	61	:
IVORDER & Developmental Dia of Old People.	6.	-	1	13	60	10	91	11	60	1	1	90	-	99	4	01		36	90	**	10	22	11	-
1. Old Age	1	-	1	13	65	10	Qŧ	11	65	1	1	90	1	60	4	04	+	93	90	*	10	12	11	-
IVORDER 4. Diseases of Nutrition.	1				i	i	1	+	1	1	Ť	1	1		1	1	1	+	+	- 1	÷	1	-1	:
I. Atrophy and Debility	1	1	i	1	1	i	1	+	1	1	t	+	1	1	1	+	+	1	1	1	+	:	1	:
CLASS V.—VIOLENT DEATHS	-	g.	1	21	90	6	Q4	=	*	60	10	188	1	12	90	01	90	123	13	10	8	11	53	:
VORDER 1. Accident or Negligence		64	1	1	10	-	ů1	to.	99	Q4	4	21	1	Ħ	*	-	9	11	9	90	133	7	128	:
l. Fractures and Contusions	1	1	1	*	1	1	7	-	1	1	+	1	1	H	12		-	-	1	-	-	-	50	:
2. Wounds	1	1	1	1	i	1	1	;	1	-	÷	1	1	60		+	1	+	1	1	_	-	G4	:
3. Burns and Scalds	1	I	1	60	1	-	ì	-	01	+	1	60	1	01	C3		21	00	01	00	91	91	=	:
4. Polson	1	-	i		-	Ť	i	-	1	+	1	F	1		1	+	+	÷	1	-	01	1	•	:
6. Drowning	-	1	T	1	-	+	1	=	÷	+	T	10	7	4	01	-		10	63	T	9	п	<u>:</u> 88	

TABLE XVI.—Continued.—Causes of Death, Classified.

	_										ځ	Serent Se											
CAUSES OF DEATH.—1874.	Menominee.	Midland	Missaukoe.	Monroe.	Montenim.	Muskegon.	Newnygo.	Onkland.	Осемпя.	.nogenotnO	Osceola,	Ottawa.	Presque Isle.	Saginaw.	Sanilac	Schooleraft,	Shinwassee,	St. Chair.	St. Joseph.	Tuscola.	Van Buren.	WannideaW.	Wayne.
6. Suffocation								1	1				1	-	1	1	-	1	i	1	1		64
7. Otherwise	1	-	1	-	60	01	7	01	*	-	H	60	Ť	Ť	Ť	1	1	20	-	60	60	64	18
VOrder 2 In Battle	-	-		1	1	1	1	i	i	i	i	Ť	i	Ť	Ť	Ť	t	- 1	Ť	i	Ť	-	- 1
VORDER 3. Homicide	1	- 1	1	-	1		T	01	T	1	i	i	1	H	Ť	i	1	i	1	-	61	1	-
1. Marder	1	1		7	-	1	1	65	1	1	i	Ī	Ť	Ť	i	i	i	Ť	T	-	1	H	-
VORDER 4. Suicido		- 1	1	-	1	- 1	1	-	1	-	G.	04	i	- 1	-	1	-	1	60	1	- 1	01	10
l. Wounds	1	1	1	1	1	1	1	1	1	1	1	1	i	1	-	i	1	i	i	1	1	-	-
2 Poison	1	1	1	1	1	1	i	i	İ	1	-	i	1	i	i	1	-	i	Ì	İ	Ì	1	-
3. Drowning	1	-	1	į	1	1	1	-	i	1	1	1	Ť	i	1	1	1	Ť	İ	Ť		1	-
4. Hanging	1	1	1	- 1	-	1	Ī	1	1	i	i	1	i	i	i	1	1	i	Ť	Ť	Ť	1	64
5. Otherwise and not Specified	1	1	1		1	1	1	İ	1		-	Q4	Ť	1	1	i	1	1	63	1	1	-	9
VOEDER & Execution	- 1	1	-	-	1		T		T	i	i	i	i	1	1	i	i	i	i	i	-	1	1
1. Hanging	1	-	-	1	1	1	T	1	1	İ	İ	İ	1	i	i	Ť	Ť	i	İ	İ	T	1	1
V ORDER 6. Violent Deaths not Included Above		-	1	80	20	64	1	C4	F	1	-	*	- 1	00	99		01	90	*	-	00	-	88
Sudden, Cause Unknown	1	1	1	1	1	1	1	1	1	Î	1	İ	Ť	1	i	i	1	1	1	1	1	1	1
Unclassified	1	-	- [-	1	1	Ť	i	i	i	1	i	1	-	i	T	i	i	1	1	-	1	-
Causes not Specified	-	7		27	25	25	10	17	19	-	00	80	1	260	26	10	18	46	10	8	13	83	308

Drowned by mother.

TABLE XVII.—Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died during the Year ending December 31, 1874; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1869 to 1874, inclusive (Still-births included).

	Такаожа.	133	124	3 106	4 8 3 4 3 4 5 3 4 5 30 10 10 10 10 10 10 10 10 10 10 10 10 10
	80 and over,	8 407	1 204	7 203	
	75 to 80.	4 318	101	2 127	
74.	70 to 75.	434	2 252	2 182	
7	.07 of 68	0 454	3 272	188	
R8	'29 ot 09	8 460	2 293	9 167	
YE	.00 to 60.	7 398	1 232	166 166	
AO	45 to 56. 50 to 55.	14 397	23	91 091	
800	40 to 45.	390 384	202 224	188	
AGES IN PERIODS OF YEARS, 1874.	35 to 40.	440 3	189	251	
D.	30 to 35.	434	184	250	
183	25 to 30.	514	227	287 2	
AGE	20 to 25.	618 5	273 9	345	
	12 to 50'	530 6	235	292	
	10 to 12.	350	183	176 2	
	2 to 10.	394	321	273	
	Under 5.	5138	8888	2280	
_	'698T	9145 5	4796	4306	
	.0781	99201	6229	5140 4	
sć.	77281	9728 10	5 190 5	1503	
YEARS	4781	13371 9	7182 5	6162 4	
	1873.	4258 1	7651	9230	
	71281	2500 1	9999	\$804	
_	Unknown,	46 1	88	18	
	December,	120	909	210	
	November.	1 896	211	448	
	October,	1211	9	299	
	September.	1517	805	111	
1874.	August	1358	736	651	
H8, 1	.Tlut	962	524	53	
MONTHS,	June.	866	12	395	
M	May.	1071	153	518	
	April	1102	909	496	
	March.	919	200	416	
	February.	673	349	319	
	January.	929	333	320	
	SEX	To.		Fe	Un

TABLE XVII.—Continued.—Specified Causes of Death.

				~	Los	MONTHS,		1874					_			YEARS.	118.					_			1	Yan	Ages IN	N	PREIODS OF	101	90	A.	YEARS, -1874.	118	7	874			
SEX.	-granast	February.	March.	April.	May.	June.	August,	September.	October.	November,	December.	Unknown.	7281	-	'828t	1872.	71281	1870.	1869.		CAUSES OF DEATH.	Under G.		.01 ot 6	15 to 20.	20 to 25.	25 to 30.	.06 to 35,	35 to 40.	.04 of 04	45 to 50.	.00 to 55.	.00 to 60.	,60 to 65,	02 00 20	70 00 02	75 to 86.	.39Yo ban 08	Caknown,
Pemales .	-	- 1	i	- 1	1		- 1		- 1	- ;	- 1	:	-	-		- 1	1		1	4	Abortion, Attempted	1		- 1		-	- 1	- 1	- 1	- 1	_		:	- 4	- ;	;	- 1	- 1	- :
Females	H	i	÷	- 1	-:	-	-		_	-01	-:	- ;		9	0	10	7	9	-	4	Abortion	1		1	- 1	- 1	_	01	01	-	-	÷	+	-:	-:	3.	:	-	-:
dales	j	1	÷	:	:	:	-	-	_	1	:	- :	_	-	1	1	-	05	-	_	Abscess of Abdomen	-	_	1	1	_	-	1	- 1	4	÷	_	+	-3	4	÷	- 1	- 1	-
Females	1	1	1	1	1	1		- 1		:	1	- (÷	1	1	C.	1	-			1		1	-	- 1	-:	-	1	÷	-	+	-	-		+	- 1	_:	-
fales	ì	1	i	:		-	1	1	-:	<u>.</u>	1		_ 1	1	1	-	1	1	1	Ab	Abscess of Armpit and Thigh	1	-	1	-	1	-	1		- 5	÷	-	-	-	*	3	:	-	-
fales	1	1	1	- 1	÷	1	1	:	:	-	4	- 1	1	:	-	- ;	1		-	Y	Abscess in Ankle	1	-	0	-	- ;	1	;	1	- 1	1	-	-	-	-	:	:	+	-
fales		1	-	:	-:	- 1	-	-:	- 1	-	1	- 1	_	01	;	-	1		i	_	Abscess of Back	-	:	1	;	1	_	-	-	:		-	-	- ;	1.0	1	- 1	-	
Pemales	Ì		- 1	1	1	1	-	-:	-	- 1	-	1	- 1	÷	;	1	-	1	i			1	-	-	1	÷	÷	-	+	:	-:	- :	÷	-	-	-	-	:	:
fales	Ė		1	1	- !	:	- !	-:	- 1	:	-1	- 1		÷	1	05	1	1	i	Ab	Abscess of Bowels	-	-	+	+	÷	-	:	- ;	:	1	÷	- ;	-	- :	1	-	1	-:
fales	- ;	1	:	1	- 1	7	-	- 1	-	-	-	- [-	- 1	01	1	03	i	_	Abscess of Brain	!	-	-	4	+	+	÷	-	:		+	÷	-	-	+	-	1	÷
Females		i	:	1	-1	:	- 1	- 1	- ;	- 1		:	- 1	_	i	ī	1	1	1			1	÷	-	1	÷	1	- 1	+	:	+	-	÷	1	-	+	+	-	÷
fales	- 1	:	:	1	- 1	- !	. 0	1	4	-:	- 1	1	:	:	1	-	1	1	- 1	Ab	Abscess in Face or Cheek	1	÷	-	- :	1	-	1	-:	:		-:	-	-:	-	-		-	·
emales	ì		:	1	1	1	;	1	:	- :	-1	1	1	÷	1	-	1	1	1	Ab	Abscess, Femoral.	-	÷	-	- 1	-	+	-	+	- :	÷	+	-	:	-	:	-	-	-
fales	1	i	-	-	-	1	:	:	:	- 1	1	1		-	- ;	1	1	1	i	A	Abscess in Groin	-	-	÷	-	:	:	- ;		-	-	-	-	4	-:	:	-	-	÷
"otal	1		-	_		-:	1	-	_:	-	_1	- ;		7	01	-	69	*	1	Ab	Abscess of Head	-	C4	-		-	-	÷	-	-:	-	-	-	1		-	- 1	:	÷
fales		1	-	61	:	4		:	-	- 1	_1	- 1		00	C9	- 1	73	60	1				-	-	-	-	_:	:	- ;	:	:	-:	÷	:	:	-	-	-	÷
'emales	1		+	+	1	-:	;	~	1	-:	:	:		-	1	-	1	-	1				-	-:	-	:	-	+	- }	1	-	-	÷	1	-:	+	+	-	-
fales	i	:	-	- [1	:	:	-1	-	-:	- 1	- 1	-		-	-	1	1	:	Ab	Abscess of Hip.	-	÷	-	-	+	-:	-:	<u>.</u>	:	- !	-	÷	:	1	-:	-	-:	1
emales	i		- 1	-	-:	:	1	1	1	- 1	1	:	1	_	1	-	1	1	1		H H H	-	+	- :	1	+	-	+	- 1	1	4	-	-	1	- ;	-	-	+	1
fales	1	÷	1	1	- 1	-	- 1	1	- 1	1	1	- 1	1	_	1	-	1	1	1	Ab	Abscess near right Kidney	1	÷	:	1	+	-	-	1	-	1	+	-:	4	:	÷	+	-:	-
Tales		-	-	-3										_	-	-				1		_	-			_	_	_	_	_	_	_	_					_	-

Females. 1 -	T	1	i				1
Total 1	10	*	-	Abscess of Liver	1 1 3	1 1	1
Males 1 1 2 4	10	04	7		1		1
Females. 1	1	01	60		1		1
Females	-	-	1	Abscess, Lumbar		1	1 1
Total 1 1 1 1 4 2	-	_	04	Abscess of Lungs	1	1 1	1 1
Males 1 1	1	_	04		1 1 1	1 1	1
Females 1	-	1	1		1 1 1	1	1
Males	-	1	1	Abscess, Pelvic	1 1 1	1 1 1	1 1
Females 2	- 1	1	1		1 1 1	1 1	1 1
Males	-	1	1	Abscess, Peons	1	1	1 1 1
Males 1	1	1	1	Abecess of Spine.		1 1	1 1
Males 1	1	1	-	Abscess of Spleen		1	1 :
Males 2	-	-	1	Abscess in Throat.		1 1	1 1
Females	1	1	i			1 1	1 1
Females	-	-	1	Abscess in Womb			
Total	18	17	16	Abscess 1	1 1 3 1	1 2 1 5	1
Males 2 2 . 1 10 11	15 18	6	=	•	111	1 1 4	1
Females 1 1 2 2 1 1 8 6	13	00	10		1 61	11	11
Males	-	1	1	Albaminaria	1 1 1	1	1
Females	1	1	1		1 1 1	1 1	1 1
Males 1 1 1	1	1	1	Albuminuria, Chronic	1 1 1		1 1
falos	1	1	1	Amaurosis		1 1 1	1 1 1
Males 1 1 1 5	00	01	1	Amputation of Leg	1	1 1 1	1 1
Males 1	01	1	1	Amputation	1 1 1	1 1 1	1 1 1
Females	+	1	1		+		
· Includes 1 "Ethmoidal."				b Includes 1 "On Heart"; 1 "In Knee"; 2 "In Side," and 2 "In Stomach."	100"; 2 "In Side,	"and 2 "In St	omach."

a Includes 1 "Ethmoidal."

TABLE XVII.—Continued.—Specified Causes of Death.

					I(o)	Монтив		1874	5							YEARS.	9							Ag	5	B	PER	TOD	AGES IN PERIODS OF YEARS, -1874	X	EVE	8,-	187	-		
BEX.	January.	February.	March.	ybur	May.	June	August	September.	1 October	November	December.	Unknown.	1826	-	1878.	7281	Test	1870.	1869.	CAUSES OF DEATH.	Under 5.	5 to 10.	10 to 15.	15 to 20,	.25 of 02	25 to 30.	30 to 35.	32 10 40	27 01 07 I	45 to 50.	55 to 55,	55 to 65.	1 65 to 70.	70 to 75	75 to 80.	80 and over.
Males			_	-;	-		-	:	-:	:	- 1	- 1	1	:	- 1	89	-	-	1	Anamia	1	:	_ 1	-1	:	- 1	:	- 1	1	i		:	- 1		-	_ 1
Females	1	:	ì	:	=	÷	-:	-:	-:	_	-	-:		04	1	64	İ	1	1		-	- }	-1	-	7	-	1	1	-	Ť	÷	1	-	1	- 1	-
Males	1	- ;	-	÷	÷		- 1	- ;	- 1	- 1	-	- ;	- [-	-	-	i	1	1	Aneurism	i	:	-	- 1	1	_1	1	- 1	÷	i	+	- 1	-!	-:	- 1	1
Total	80	10	-	95	-	-	-	100	-	100	100	00	_	83	81	20	20	2	8	Apoplexy		-	- 1	60	-	1	64	-	*		0	4	-1	9	40	64
Males	64	C+	00	-	00	-	-	-	-	102	-	- 1	-	19	49	2	4	13	40			=		C.s	1	- 1	-	-	*	9	9	63	19	9	-	_
Females.	-	-	-	64	÷	-	F2	64	61	-	D4	60	-	90	32	2	83	61	2		1	- 1	1	-	-	- 1	-	- 1	-1	-	63	69	60	10	_	-
Females.		- 1	÷	Ť	1	+	÷	-		- 1		1	1	1	1	H	i	1	1	Arm, Inflammation in	1	-	- 1	1	:	- 1	- 1	- ;	i	1	i	+	- ;	÷	-:	- 1
Total	64	-	:	94	01	10	52	-	-	-	60	29		8	22	a	16	3	24	Asthma	44	91	1	- 1	- 1	1	-1	1	÷	1	64	-	1	20	-	_
Males	*	-1	:	-	**	64	:	-	_	-	-	-	_	=	13	2	100	=	8	,	5	4	-	- }	-:	-	1	:	i	i	:	C9	-	-		-
Females.	-	-	1	-	-	-	-	-	-:	_	E4	-	-	6	00	=	00	=	4		_	4	1	1	:	-1	:	:	1	1	01	CI.	=	-		-
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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

Application Application	1 1 1 1 1 1 1 1 1 1	1	SEX.					7	Гомтив,		* -	per.	-	-	1	1 'uw			Yes.	-	-	0	CAUSES OF DEATH.			-3	A	3 7	E	_	2 3	Pentob	PERIODS	Penions or Yr	Periods of Years	PERIODS OF YEARS,—1	or Yrans,—187	or Trans, -1874.	or Years,—1874.
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Males 30 37	37	3	20	55	23	48	99	13	19	99	22	4 656	6 671	_	730 635		697 5	563	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	82	21	83	1 19	70 56	46	55	44 45	43	4	43 31	2	F=
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TABLE XVII.—Continued.—Specified Causes of Death.

	_	l	1		Month	È	A, 1874.	7.	l			-			YEAR	蜡		T						Ą	2	Ä	Agre in Periods of Years,—1874.	2	9	∠	E V	Ţ	187	ي.		ĺ
SEX.	. Tannaary.	Ropinsty.	March.	April.	Muy.	July.	August	September.	.tedoto0	November,	December.	Unknown.	7181	1878.	.2781	7281	.078I	.0981		CAUSES OF DEATH.	Under &.	.01 of 6	10 to 12.	12 to 50.	1 20 to 25.	1 32 to 30.	30 to 35.	35 to 40.	40 to 45.	.00 to 55.	.00 to 60.	.60 to 65.	02 01 29	70 10 12	1 75 to 80.	1 80 and over,
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a Includes 2 "Exhaustion."

TABLE XVII.—Continued.—Specified Causes of Death.

				M	MONTHS,	нв,	1874.	4							YEARS.	16					_			AG	AGES IN PERIODS	2	ERI	ODS	0	YE	113	of YEARS, -1874.	174		
SEX.	January.	March.	qudy	May.	Saul.	July.	August,	September.	October.	Почетрет.	December.	1874.	1878.		2781	.1781	.0781	.698I	J	CAUSES OF DEATH.	Under 5.	0 to 10,	10 to 15.	15 to 20.	20 to 25.	1 25 to 30.	30 to 35.	1 35 to 40.	40 to 45.	50 to 55.	.09 of 55	29 01 09 1	65 to 70.	1 70 to 75.	
Females	-	01	9	-	52	83	47	55	13	9			157 10	167 1	167	- 86	187	132	Diarrhea.	ea	2	146 2	-	- 1	- 1	O.F	1	-	- :	- :	- 1	1	-	01	- 4
Unknown	- 1		1	-1	:	i	1	- 1	1	i	1	-1	- 1	1	-	1	i	1	:		1	1	- 1	1	- 1	;	i	÷	+	- 1	-1	- 1	÷	+	
Females.	1	- 1		- 1	1	- {	-	3	- 1	Ť	- 1	_	-	1	1	i	i	1	Diarrh	Diarrhea, Typhoid	- 1	-	- 1		1	1	-	÷	÷	- 1	- 1	;	÷	+	- 1
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Males	1-	7 0	9	0	*	4	.00	8	14	=	18	_	107	115	83	23	28	49			1	64.33	.0	-	- 1	-	-	÷	÷	-:	- 1	-	Ť	+	
Females.	6	4 6	9	9	4	10	2	19	6	19	15	_	106	102	101	89	13	9	=		7	51 34	2	60	64	- 1	1	63	C1	1	- 1		i	+	-
Total	+		00	- 1	- 1	01	-	1	1	-1	1 00		0	9	4	60	-	1	Dropsy	y of Abdomen	- 1	-	-	1	- 1	- 1	-	T	63	+	-	-	-	-	- :
Males	1		-	- 1	- 1	04	- 1	- 5	1	-	F		-	1	01	-	*	-		" "	+	-	1	- 1	1	- 1	Ť	- 1	-	- 1	-	1	-	-	-:
Females	1	- ;	01	- 1	- 1	- 1	-	- 1.	- 1	1	01	_	10	9	69	01	80	1	:	" "	-	1	-	:	- 1	1	H	1	;	- 1	_1	-	=	1	- !
Total	10	1 6	9	60	20	10	10	-	9	00	:		19	92	69	99	62	1	Dropsy	y of Brain	-	43	-:	- 1	- ;	-	1	01	_	-	- 1	- ;	÷	+	- !
Males	04	- 5	2	-		H	4	:	4	03			22	46	30	88	69	-	:	" "	-	19 2	-	- 1	- }	-	:	-	1	:	- 1	1	Ť	+	:
Females.	60	F	5	64	00	7	-	-	01	-	67		15	30	33	58	8	1	:			24	1	1	i	- ;	1	=	÷	- 1	- 1	- 1	÷	÷	- 1
Total	-	7	=	- :	.1	01	:	-	- 1	-	-		-	18	=	77	16	2	Dropsy	r of Chest	1	+	-	- 1	- 1	- ;	1	-	-	1	- 1	69	÷	1	61
Males	+	- 1	-	1	- 1	i	- 1	- 1	1	1	+	-	C)	00	7	9	*	-	=	, ,	+	+	-	- 1	:	;	Ť	÷	+	- 1	1	-	i	+	-
Females.	1	-	-1	-1	-1	01	1	-	i	-	-		10	10	4	00	15	4	2		+	+	- 1	ः	- ;	1	-	-	-	1	1	-	÷	Ť	91
Total	+	÷	-	4	1	i	- 1	- 1	-	÷	+	_	60	61	н	-	i	1	Dropsy	y, General	+	+	-	1	ī	- 1	i	1	:	- :	:	-	1	-	1
Males	+	+	- :	- ;	- (i	1	- 1	-	+	+		-	CI	+	1	i	1		,	1	+	-:	1	1		i	Ť	+	- :	:	-	:	-	:
Females	- 1	- :	-	_;	- 1	i	- 1	1	-	+	+		01	- 1	-	-	i	1	:	,	-	+	- 1	- 1	:	:	Ť	-	-	- 1	- ;	-	÷	+	:
Total	00	11 9	10	7	1	6	*	09	01	6	9	_	11	69	13	69	2	81	Dropsy	Dropsy of Heart	1	*	60	*	7	+	9	9	Ť	-	03	=	-	01	60
Males	60	13	63	04	00	10	-		-	*	+		30	98	33	8	11	9	=		-	7	04	100	:	69	:	60	-	60	-	6	60	+	_
Thems Inc		0	0	-	3	•		•	-		-				d		7,						_			Ī	-		-	_		1		-	-

Total - 1 - 1 - - - - - -	1	1	÷	1	÷	-	Dropsy of Kidneys	1	1	1-1-1-1	1	
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Females	:	1	i	i	i	1		-	1		1	
Males	1	01	j	i	÷	1	Dropsy of Limb	-	-	1 1 1	1	
Males	1	1	G4	İ	i	1	Dropsy of Liver	-	1		1	
Females	1	1	İ	1	01	-	Dropsy, Ovarian	:	+		:	
Females	1	1	-	1	-	1	Dropsy, Uterine	1	+	1	1	. :
Total 15 14 12 21 20 17 18 24 29 16 20 19	1 226	3 243	217	013	346	918	246 Dropsy (Unspecified) 18 14 8 5 4 1	11 9 15	14 11	16 11 23 25	17 15 8	4
Males 9 8 6 6 12 10 10 11 13 6 5 7	1 104	1112	86	88	103	19	1 6 8 8 9	2 1 2	20 00	9 7 9 15	9 7 8	-
Females., 6 6 6 15 8 7 8 13 16 10 15 12	123	131	119	124	143	136	11 8 8 2 2	6 8 10	8 0	7 4 14 10	90	-
Males 2 8 8 2 2 1		16	30	i	÷	1	Drowning, Accidental 4 3 1 4 5	-	-	1 1 1	:	:
Females	-	1	01	i	1	1		1	1		-	
01	1 95	5 91	8	87	107	96	Drowning 13 11 13 11 7 6	* 9	6 5 1	1 2 2		25
Males 8 1 5 6 21 10 8 7 9 6 3		88	62	16	91	26	8 10 13 9 7	4 6	1 2	3 2 1		=
Females 1 20 10 10 10	1	8	.9	10	16	8	6 1 3 2	-	1	1	1	-
Unknown	1	1	1	-	1			1	1	1	1	
Total	1	1	i	1	1	-	Dysentery, Obronic	-	-	1	1	- :
Males	-	1	i	1	+	-		-	1	1	1	:
Females 1	1	1	İ	÷	1	1		+	i	1-1-	:	
Total 6 4 3 4 4121 102 94 47 10 6	300	319	456	173	374	236 D	Dysentery 239 8 2 1 4 2	61	20	2 6 4 5	4	90
Males 2 2 2 3 4 13 51 43 27 9 3	3 1 160	168	246	87	198	136		1 1	1	1 4 4 2	61	01
Females 4 2 1 1 8 51 51 20 1 3	3 142	150	210	98	176	66	115 8 2 1	1 1 3	8 1	1 60	60	-
Unknown	-	-	ij	÷	1	-		1	1	1 1 1 1 1	1	-:
Females	-	1	7	÷	÷	-	Dysmenorrhea	-	1	1	1	:
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Males 3 4 1 2 2 1	13	H	п	63	12	*		-		1 4 01	-	:
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a Includes "Meningeal Dropsy." See Hydrocophalua. The numbers in 1870 column have been compiled heretofore as "Dropsy of Head." b Includes 1 "Chronic."

TABLE XVII.—Continued.—Specified Causes of Death.

				=	Monte			1874								YEAR	_				_			V	AGES	N	PE	RIO	PERIODS OF	à o	YEARS,-1874.	118,	7	374.		
SEX.	January.	February.	March	April.	May.	June .	August	September	October,	November.	December.	Unknown.	7/81	1873.		1872,	11781	1870.	'69SI	CAUSES OF DEATH.	Under 5.	D to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	20 to 35.	35 to 40.	40 to 45.	.05 of 64	.66 to 65.	.00 of 66	60 to 65,	70 to 75.	708 04 07	50 and over,
Females					-	1	-	01	1	- !	- 1			00	10	10	10	10	- 65	Dyspepsin		- :	1	-	1	-:	1	-			1		1	-	1	1
Males	- 1	1	-	÷	-	+	-:	-	-1	- !	-	-:	1	1	1	-	1	1	- ;	Earache		_;	- 1	- ;	1	_;	1	1	- 1	:	:	- 1	1	÷	÷	+
Females	- 1	i	1	i	\exists	+	+	-	- 1		_:	-:	1	:	-	1		1	- 1		1	:	- :	-:	:	:	- 1	1	- 1	- 1	- 4	-	-			-
Females	- 1	1	i	Ħ	\dashv	+	+	-:	-	-!	-:	-:		:	1	7	Ť		;	Ear, Swelling of	- 1	- :	:		:	- 1	- 1				- ;	-:	i	÷	÷	- 1
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Males			_		÷		+	_	- :	-:	- 1	- 1	- ;	1	-	1	-	1	1	Emphysema	1	-:	-:	_	- 1	_	:	1	- 1			_	-	÷	-	+
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Males	91	C1	-1	60	.#	-	-	-	99	01	-	G4	-	83	30	17	14	6	7			01	64	60	-	61	C.	00	:	- 1	:	:	C1	=	÷	+
Females	- 1	-	- 1	-	-	1	04	-	-:	-	_:	-:	-	00	13	=	=	6	10		-	-:	-:	-	- :	-1	-	- 1	-	- 1	-	1	1	=	-	01
Total	00	7 11	=	6	90	10	6	9	6	-	9 12	:	-	101	82	120	87	89	69	Erysipelas	88	20	00	60	00	60	2	*	9	7	00	4	63	-	00	4
Males	4	*2	9	64	10	9	-	63	10	- 02	2	-		28	96	87	83	36	40		17	7	60	-	-	-	-		4	10	01	61	00	7	01	01
Females.	7	01	10	-	00	-	10	63	-	-	60	:		88	63	23	24	85	83		16	9		01	63	01	*	*	-	01	-	01	4	63	-	01
Total	1	10	1	-	-	04	1	-	-	-:	-:	<u>.</u> :		01	10	1	1	1	:	Explosion	4	- 1		60	28	1	69	-	-	69	- 1	1		-	÷	÷
Males	1	8	;	H	-	69	÷	-	-	-;		- :		=	6	;	+	٠,	1		_	-		60	01	1	04	1	-	01	-:	1		-	-	-
Females.	- ;	1	1	i	÷	÷		-:	_	-	:	- 1	-	-	-	1	1	-1	- 1		-	- 1	-:	1	- 1	;	- 1	-	- 1	- 1	1	1	i	1	i	1
Males	;	1	1	÷	÷	÷	- 1	- 1	- :	- :	-	-	-	-	-	-	1		- 1	Exposure in Army	-	- !		-:	:	- 3	- 1	- :	1	. ;	:	:	1	1	-	+
Males	1	- 4	:	i	:	÷	+	-	-1	- :	- :	- ;		+	H	-	-			Exposure	1	_	-	- 1	- 1	- 1	1	1	1	- 1	-1	1	1	1	1	1
Females	1	:		:	÷	+	1	-	-	-;	-:	-:	1	1		-	•	1	1		1	+	-:	1	- 1	- ;	- 1	-;	- 1	- 1	- ;	:	1	1	i	1
Females		1	-:	i	-	-:	-	-	-:	_	_	_	_	-		;	-			Extra-uterine Pregnancy.		-	_	_											-	-

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+	1	-	į	- 1	1	1	-	1	ory	Fever, Inflammatory	1	1	69	+	01	- 1	:	1	Total 1	tal
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:		1	÷		:	1	1	1		Fever, Gastric	1	:	1	-	01	1 1	1	1 1	Males	68
1	1	+	1	1	1	1	1	1	Belapsing	Fever, Continued Relapsing.	1	1	1	1	1		1	1 1	Females	nales.
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1	-	Ŧ	i	1	1	1	1	-	9	Fever, Continued	1	-	1	01	01	1-1-1	1	:	1	Total
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-	+	1	1	-:	1	1	1	1		Fever, Catarrhal.	1	1	-	1	10		1	1 04	Males	les
1	-	-	1	1	1	1	1	4		Fever, Black	1	-	-	1	1	1	1	1 1	Males	108
-	1	+	i	:	;	1	1	+	-	,,	1	_	+	1	1	1	:	1	Unknown	Knows
1	*	H	3 1	-	10	00	4	00		:	23	30 30	30	83	8	1 0	4 10 8	. 1 6 1	Females 2	nales.
60	64	-	20	1	-	6	1	13 1			18	20	98	8	88	1 8	9 11	1 2 1	Males 1	68
99	42	01	4	4	0	9	3.4	21 3		41 Fever, Billous		55 65	99	19		10 2 8	6 19 19	1 3 6 1	61	Total
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1	.;	+	1	69	60	60	-	1	-		1	1	21	8	18	1 1 4		3 1 1 2	93	Males
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TABLE XXVII.—Continued.—Specified Causes of Death.

				-	LON	THS,	Моктия, 1874.	4							YEARS.									AG	AGES IN	E	PERIODS OF YEARS, -1874.	101	90	A.	YEA	180	Ĩ	874			
SEX.	February.	Rebriary.	.IbqA	May.	June	July.	Angust	September.	October.	November	December.	Unknown,	7281	1813.	1872.	'1281	vest	1869.	CAUSES OF DEATH.	Ei.	Under &	.01 of 6	10 to 15.	To or gr	20 to 25.	25 to 30.	.38 of 08	35 to 40.	.62 01 04	45 to 50.	.66 to 55.	.00 of 55	.60 to 65.	62 to 70.	70 to 75.	75 to 80.	30 and over.
Total	*	10	-	8	69	7	-	13	95	4	-	- :	62	53	8	2	8	28	Fever, Intermittent	1	81	7	04	*	69	4	1	01	64	-	60	-	-	64		1	0.
Males	-	-	69	00	64	60	-	9	01	60	1	-1	3	23	8	98	133	20			16	02	-	- 1	- ;	-	-	- 1	- 1	-	- 1	-	- 1	-	1	- 1	- 1
Females.	10	-	01	60	1	*	0	7	00	-	-	:	88	9	31	83	25	18		-	13	*	-	a.	0,	60	;	O.	61	:	60	- 1	-	-	:	- ;	64
Males	1	-	- 1	- 1	- 1	;	÷		1	- ;	- 1	1	+	1	-	-	i	1	Fever, Lead or Painters'.		1	- (-1	1	- 1	-1	- :	-1	_:	- 1	:	1	- 1	- 1	:	:	- 1
Females.	_	1	- 1	- 1	- ;	:	i	i	1	. 1	- 1	- 1	1	1	i	1	-	1	Fever, Malignant	-	1	:	- ;	- !	- !	-	-:	_!	_ 1	- 1	1	:	:	. :	,	_ 1	-:
Females	- 1	_	-	-	_1	- ;	i	1		:	- 1	- 1	08	1	-	i	i		Fever, Milk		1	1	- 1	- 1	- 1		-	-	1	:	- 1	1	≥ 1	- 1	:	:	- 1
Total	1	-	-	-1	-;	-	- 1	1	1	- 1	- 1	1	60	10	6	00	i	1	Fever, Nervous	-		-	:	- 1	64	-	- 1	- 1	-	:	- 1	- 1	- 1	:	:	- 1	:
Males	1	1	-	- 1	:	-	1	1	- 1		- 1		01	00	9	10	i	1			i	1	:	_ ;	-		-	-:	-	- 1	- 1	- 1	- 1	•	- 1	- ;	_ !
Females	- 1	-1		- 1	- :	1	1	1	1		- 1	-;	-	G1	60	60	i	1				- 1	-1	- 1	-	-:	- 1	- 1	:	-	-:	- 1	- 1	- ;	_1	1	:
Females.	60	01	9	90	60	H	69	*	10	-	9	1	49	69	4	38	13	55	Fever, Puerperal	-		- 1	- ;	_	2	00	120	10	9	-:	- 1	- 1	- 1	1	- 1	:	:
Total		1	1	-	- 1	H	m	- 1	-	- 1	-1	1		13	16	15	0	10	Fever, Remittent		04	1	-	1	1	_	-	_ :	- 1	1	-	- 1	- 1	- 1		-1	- 1
Males	1	1	1	- 1	-:	-	-	- 1	-		:	:	63	10	-	9	*	60	, ,		Ct	:	-	1	-	-!	1	:	1	1	1	1	- 1	- 1			1
Females	- 1	:	-	-	-1	1	1	-	1	;	1	T	-	-	6	6	9	64			1	1	:	1	-:	-	-	-	- 1	1	1	- 1	:	1	. 1	1	
Total	-	1	01	_		-	:	60	1	- 1	- ;	:	6	1	6	i	Ť	1	Fever, Rhenmatic	***************************************		60	-		-		÷	-	-	-	-	1	- 1	- 4	- 1	- 1	-
Males	-	-	-	-	- 1	1	- 1	01	- 1	- ;	- ;	1	9	60	10	Ť	Ť	1	, ,,			64	-	-	-	- 1	-	1	- 1	-	~	-1	-1	-	1	-	-
Females.	- 1	1	*	1		-	- 1	-	1	1	- 1	:	60	*	-	i	i	1	" "		1	-	- 1	1	1		1	-	-	-	1		1	-1	1	1	
Males	:	1	1	1	-1	- 1	•	1	-	- 1	1	- 1	1	F	i	1	İ	1	Fever, Scrofulous		1	-:	;	1	<u>.</u> :		- 1	-		-:	- 1	1	-	1.		-	
Males	;	1	1	- 1	- 1	- 1	Ť	1	1	- 1	- 1	1	1	1	-	i	i	1	Fever, Ship	***************************************	i	- 1	:	1	+	+	-	- 1	:	-	- 1	1	+	- ;	-	-	+
Females	i	-	1	:	:	- 1	-	1	- 1	- (- 5	÷	-	7	-	i	i	1		-		-	- 1	1	-	4	+	1	1	- 1	1		- 1	- 1	1	-	+
Total	-		1	-	- (:	-	-	1	-	-	-1	9	9	7	+	i	-	Fever sore		-	01	-	-	-	-	÷	-:	-	-	_	-	1	-	-	-	4
Males	-	-		_	_		40	-	1		-		-	-	01	-					-	_	-		-	-	-		_	_	_	-	_		_	_	

Total 4 2 12 16																								
	16 5 4	4 10	14 6	5 6	88	428	112	-	1	1	Fever, Spinal	:	45	3	1	9	60	;	:	-	63	7	-	:
Malos 1 3 9	10 2 1	+	8	1 3		237	9	1	1	1			83	+	7	64	-	:		-1	-	-	-	-
Females. 3 3	80	9	6 5	7	46	191	52	-	1	1			65	-	62	+	1 3	:	:	-	-	:	+	.:
Total 1	1 1	1	1	01		89	109	16	00	2	ever, Spotted		62	-	- 1	÷	-1	H	- 1	;	-	;	- 1	1
t	1 1	1	1	1		38	20	9	*	05			00	-	1	+	1	i	-	;	-	:	:	1
Females.	1	-	-	1	-	30	33	10	7	04			1	4	1	1	1	-	- ;	.:	+	- 1	1	
Total 33 23 22	24 31 24	30 50 1	193	99 51	3 610	6:1	630	357	574	437 F	Fever, Typhoid	4	61	146	103	74 50	0 42	52	28	81	25 25	13	120	9
Malos 12 16 12	15 13 12	13 26	59 62	46 30	317	386	340	192	270	855			28 19	11	8	43 32	61	13	16 13	10	15 14	2	-	60
Females 21 7 10	8 18 12	17 24	45 61	46 21	3 293	999	280	165	304	500			33	8	53	31 18	15	1	12 10	27	10 11	9	10	69
Females.	1	-	1	1	-	-	-		1	-	Fever, Typhoid Rheumatic	lc	1	1	1	+	- !	:	- 1	- 1	- 1	:	+	- (
Males	1 :	1	1	1	1	01	1		1	1	Fever, Typho malarial	:	1	1	i	1	1	÷	+	1	1	:	1	1
Females.	1	1	-	1	1	10	1	1	1	1			:	1	+	+	- 1	1	:	- ;	1	- (1	. 1
Total 1 1 1	1 10	1 1	4	01	16	16	8	00	-	6	Fever, Typhus		4	-	-	01	-	:	-	i	00	1	-:	1
Malos 1 1 1	1 1	1	1 4		13	*	12	*	1	9			4	-	-	-	:	1	-	i	-	1	:	o.i
Females	1	1	1	1	-	12	17	4	1	00	,		-	1	1			:	- 1	:	:	1	1	1
Total 1 2 5	7 5 5	6 17	21 13	7	1 97	133	126	130	136	248 F	Fever (Unspecified)		43	60	9	7	00	7	60	-	2	:		61
Malos 1 2 4	01	60	9 6	10	1 51	88	20	95	2	133			98	01	01	₹	-	01	04	*	64	1	-	-1
Femalos 1	00	3 10	12 7	64	46	65	26	63	23	115			17	-	7	65	*	94	1	60	00	- 1	C1	61
Unknown	1	Í	-	1	1	1	1	64	1	1			;	1	1	+	1	1	:	i	1	i	- 1	1
Males	1	1	1	1	1	- 1	-	+	1	1	Fistula in Ano		:	:	i	- 1	- 1	i	+	1	1	1	1	1
Males	-	-	-	1	-	-	1		1	1	Fistula	:	-	1	1	:	:	- 1	- :	- ;	:	. 1	1	. 1
Femalcs.	1	1	1	+	1	-	1	•	1	1	Fits, Rheumatic		:	- 1	;	1	1	i	1	- 1	1	- 1	+	1,
Males	1	1	1	1	1	64	1	1	1	:	Fits, Spinal	:	-	1	1	1	1	i	1	1	- 1	-1	1	1
Total 7 5 6	19 17 8	11 6	12 13	7 10	- 114	150	170	131	164	151	151 Fits (see Convulsions)		76	-	-	00	3 1	r	:	-	\$0	-	-	1
Males 6 3 4 6 13	6 13 5	6 1	9	5	. 8	94	96	20	26	81			55	1	-	01		-	1	-	-	1	-	21

TABLE XVII.—Continued.—Specified Causes of Death.

				2	MOSTER	ras,		1874.							YE	YEARS.			_					A	GES	IN	P	KBI	Ages in Periods of Years, -1874.	0	X	TYE	Į.	187	4		
SEX.	January.	Pohrusty.	March.	May.	June.	July.	Jangua 1	September.	October,	November.	December	Unknown,	1874.	'878I	1872.	T281	'02SI	1869,	1	CAUSES OF DEATH.	Under 5.	1 5 to 10.	10 to 12.	10 to 50.	1 20 to 25.	25 to 30.	.08 to 85.	35 to 40.	40 to 45.	.0g or gp	.60 to 56.	.09 of 66	60 to 65	, 65 to 70.	70 40 75.	'08 m 92 1	· sevo bas 08
Females	-	01	9					9	-	01	9		49	8	74	61	67		69 F.	Fits (see Convulsions)	7	9	01	_:	_	-	_ :	- 1		:	=4			-	. ;	- 1	_
Unknown		1	-:	- 1	:	1	- 1	-)	- ;	- ;	- 1	- 1	1	i	1	- 1	i		-		1	+	:	:	1	- }	1	-1	:	- 1	- 1	:	- ;	1	- 1	- 1	- 1
Males	1	1	;	1	- ;	:	- 1	1	- 1	_1	- 1	- 1	7	1	1	1	i	!	H	Foot, Inflammation of	1	-	-:	-:	1	- 1	. :	- 1	:	1	- 1	- ;	-	- !	- 1	- 1	- 1
Males	- 1	1	- 1	- 1	- 1	:	- (- 1	1	- :	- 1	- 1	1		1	1		1	1	Foul Air in Well	1	+	:	;		:	- 1	1	:	1	1	1	1	1	- 1	1	:
Males		1	- !	1	- 1	- :	- 1	- ;	-1	-	:	-:	-	1	1	-	i	1	E.	Fracture of Fore Arm, Compound	1	+	- !	-	:	:	- !	- 1	1	-	1	- 1	:	- 1	i	1	- 1
Males	- 1	- :	- 1	- :	- 1	-1	- 1	_ !	- ;	- 1	- 1	- 1	1	i	-	-	-	1		Fracture of Arm	1	- :	:	-:	- 1	1	1	:	1	1	-1	- :	- 1	1	. 1	1	1
Males	1	1	1	1	- 1	- 1	- 1	- 1	- 1	1	:	:	- 1	1	1	i	7	1	E	Fracture of Clavicle	-!	1	-	1	-1	1	_1	- 1	1	- :	:	1	1	1	1	;	:
Females	1	1	- 1	- 1	1	- (- 1	- 1	- ;	- 1	- 1	:	-	01	-	1	-	- 1	54	Fracture of Hip.	1	÷	-:	- 1	1	1	1	- 1	- 1	1	- ;	:	-;	:	1	- 1	1
Males	1	- 1	- 1	- 1	-1	- 1	- 1	- 1	-1	- ;	- 1	- :	1	i	-	i	- 1	_ [6	Fracture of Knee.	1	-	;	1	. 1	-	- 1	- 1	-1	1	:	:	- 2	1	- 1	- ;	1
Potal	1	:	- :	-	1	-	- 1	- 1	-	- 1	-	- 1	*	01	-	-	00		E	Fracture of Leg.		-	- ;	:	- 1	:	- 1	- 1	-	-	- 1	- 1	-1	1	-	:	- 1
Males	1	- :	- 1	-	_(1	.;	- }	-		-	- 1	60	04	1	1	00						- 1	- 1	1	:	- 1	+	-	-	1	:	- 1	-:	_1	- 1	_ 1
Females	+	-	- 1	1		-	- ;	- 1	- ;	- 1	1	:	-	-	1	-	1		-		-!	- 1	- ;	- 1	- 1	- 1	-:	4	- :	- 1	:	- 1	- 1	:	н	1	_¥
Males	1	-	:	:	-1	- 1	. 1	-	- 1	.:	- 1	1	-	1	1	1	- }	-	E	Fracture of Limb	1	-	:	-	-1	1	1	. 1	1	1	- 1	t	- 1	- 1	- }	1	1
Females	1	- ;	:	- 1	- 1	- 1	- 1	- ;	- 1	- 1	- 1	:	1	04	i	01		1	-		1	- ;	:	1	- 5	- ;	- :	:	1	1	- 1			-;	-:	4	7
Males	-	- !	-	- 1	- 1	;	- 1	- ;	:	1	1		1	1	;	1	-	-	E.	Fracture of Neck	1	4	_ 1	1	.:	:	. 4		:	- 1	- ;	:	1	- 1	-:	1	- 1
Males	1	1	1	01	1	-)	- ;	- 1	7	01	1	- 1	9	-	64	i	G4	_	E	Fracture of Skull	1	1	- :	-	01	-	1	:	1	1	1	1	1	- 1	-1	1	-
remales	1	1	-!	1	:	1	-1	- 1	4	:	1	:	1	1	1	-	-	7	-		1	-	:	1	:	1	- 1	:	1	:	1	- 1	:	-	- 1	1	1
Fotal	-	1	-	:	1	1	;		- 1	:	1	:	01	04	00	-	1	-	G.	Fracture of Spine		-	- ;	4	-	:		:	2	:	:	:	1	;	- 1	:	;
fales	-	1	-	1	- (- 1	- 1		1	:	-	:	-	64	64		1	i			1	1	- :	1	-		4	;	1	:		1	:		.:	:	- (
Females	- 1	1	~	1	1		- ;		:	:	1	1	7	1	-	1	1	1				-		1		- 1	- 1	;	1	1	.:	- (-1	- 1		-	
fales	-	-	_											-					6	Practure of Thich	_	-												Ī			

Males -	1 Fracture
Famales	
01 02 03 03 03 03 03 03 03 03 03 03 03 03 03	Freezing
Males 1 3 1 3 4 2 3 2 2 2	
Females 1 1 1 1	
Females 1	Prightened
Males 1 1	Frozen Leg.
Males	Fungus Hamatodes 1 1
Females 1	Gall-stone, Passage of
Total 1	Gall-stone
Males	
Females 1	
Males	Gangrene of Lungs
Total 1 1 2 - 1 1 1 - 7 8 11 4 3	Gangrene 3 2
Males 1 1 5 4 9 3 3	
Females 1 1 2 4 2 1	
Females 1 1 1	Gastralgia
Females	Glanders
Males 1 1	"Glands"
Females 1	Golfre
Males 1 1 1 1	Gout, "Rheumatic" 1 1
Males 1	Gout
Total 1 2 1 1 1 8 2 1 1 8 3 1 19 25 22 24 24	92
Males 2 1 1 3 2 1 1 3 3 1 18 21 22 23 23	
Females. 1 1 4 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Males 1 4 1 5 3 3 1 18 6 22 11 20	12 Gun-shot

. Includes 1 "In Feet"; 1 " Dry"; 1 "Dry in Feet"; 1 "In Leg"; and 1 Senile.

TABLE XVII.—Continued.—Specified Causes of Death.

Gun-shot 1 2 1 Hæmoptysis 1 1 2 1 " 1 1 1 1 1 Headache 1 <	Gun-shof. 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Gun-shot Exmoptysis 1 2 2 2	Gun-shot Exmoptysis Headache "Head Disease" Head, Inflammation in 1 Heads Inflammation i	Head, Inflammation in 1 2 1 2 1 3 3 3 4 4 4 4 4 4 4	Head bisease	Gun-shot 1 2 2 2	Hemoptysis 1 1 1 1 1 1 1 1 1	Hemoptysis 1 1 1 1 1 1 1 1 1	7721 7470. 1670.
	Headache	Headache	Headache	Hæmoptysis	Hæmoptysis	Hæmoptysis	Headache	Hemoptysis Headache Headache Head Disease Head, Inflammation in 2 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Sore Heart Disease, Organic Heart Disease, Organic Heart plicase, Inflammation in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1
### Headache ####################################	## Headache ### ### ############################	Headache	Head Disease" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Headache "Head Disease"	Headache "Head Disease" Head, Inflammation in Head, Injury to	Headache "Head Disease" Head, Inflammation in Head, Injury to Head, Sore	Headache "Head Disease" Head, Infammation in 3 Head, Infammation in	Headache "Head Disease" Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Head, Inflammation in 3 Heat Disease, Organic 8 5 4 11 9 8 5 10 5 13 17 6 13 Heart Disease, Organic 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 12 12
7		Headache	Headache "Head Disease"	Headaohe "Head Disease" " Head, Inflammation in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Headaohe	Headache	Headache "Head Disease" Head, Inflammation in 2 Head, Inflammation in 3 Head, Sore Heart Clot Heart Disease, Organic S 4 11 9 8 6 10 6 13 17 6 13 10 11 18 17 23 25 20 37 28 31 32 16 11 18 17 23 25 20 37 28 31 31 31 31 31 31 31 31 31 31 31 31 31	Headache "Head Disease" " Head, Inflammation in 3 to 3 Heart Disease, Organic 8 5 4 11 9 8 5 10 5 13 17 6 13 10 1 Heart Disease, Organic 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 M
	# I S	Headache "Head Discase" " " " " " " " " " " " " " " " " " "	Headache "Head Discase"	Head Disease" 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Headache "Head Discase" " Head, Inflammation in 1 " Head, Injury to 1 " Head, Injury to 1	Head Discase " 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head Disease " 4	Head Discase" 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60
**************************************		"Head Disease" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"Head Disease" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head Disease" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head Disease" 4	Head Disease" 4	Head, Inflammation in 3 Head, Inflammation in 2 Head, Injury to 3 Head, Sore Heat, Disease, Organic 10 Heat Disease, Organic 11 Heart Disease, Organic 11	Head Disease" "" " " " " " " " " " " " " " " " " "	1
1		Head, Inflammation in 2	Head, Inflammation in 1	Head, Inflammation in 1	Head, Injury to	Head, Inflammation in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head, Inflammation in 3	Head, Inflammation in 3	
	e	Hoad, Inflammation in 2	Head, Inflammation in 2	Head, Inflammation in	Head, Injury to	Head, Injury to	Head, Inflammation in 2	Head, Inflammation in 2	-
Head, Inflammation in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head, Injury to	Head, Injury to	Head, Injury to Head, Sore	Heart Clot	Heart Clot.		Heart Disease, Organic	Heart Disease, Organic 8 5 4 11 9 8 5 10 5 13 17 6 13 10 11 6 11 11 11 11 11 11 11 11 11 11 11 1	1
Head, Inflammation in	Head, Injury to Tead, Sore Head, Sore Heart Clot	Head, Injury to	Head, Injury to Head, Sore Head, Sore	Heart Clot	Heart Clot.		" " 10 4 3 2 14 8 6 8 12 10 9 14 24 18 10 17 10 11 10 10	Heart Disease, Organic 10 4 3 2 14 8 6 8 12 10 9 14 24 18 17 10 11 6 18 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	301 230 258 22
Head, Inflammation in 2 Head, Injury to 1 Heart Clot 1 Heart Disease 1 Heart Disease 1 13 22 16 11 18 17 22 25 20 37 28 25 16	Head, Injury to Head, Sore Heat Glot Heart Clot Heart Disease Heart Disease Heart Disease Heart Disease	Head, Injury to	Head, Injury to Head, Sore Heart Clot Heart Disease Heart Disease Heart Disease	Heart Clot	Heart Clot.	Heart Disease 18 9 7 13 23 16 11 18 17 23 25 20 37 28 25 16	Heart Disease, Organic	Heart Disease, Organic 8 5 4 11 9 8 5 10 5 13 17 6 13 10 11 6 Heart, enlargement of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	155 126 145 14
Head, Inflammation in 1 1	Head, Injury to Head, Sore Heat Clot. Heart Disease	Head, Injury to. Head, Sore. Heart Clot. Heart Clot. Heart Disease. Heart	Head, Injury to. Heart Clot. Heart Clot. Heart Clot. Heart Disease. 18 9 7 13 23 16 11 18 17 29 26 20 37 28 28 16 11 18 17 20 26 20 37 28 28 16 11 18 17 20 26 20 37 28 28 16 11 18 17 20 26 20 37 28 28 16 11 18 17 20 38 28 16 10 18 17 20 38 28 16 10 10 14 31 10 10 14 31 10 10 14 31 10 10 14 31 10 10 14 31 10 10 11 31 10 10 11 31 10 10 11 31 10 10 11 31 10 10 11 31 10 10 11 31 31 31 31 31 31 31 31 31 31 31 31	Heart Clot Heart Disease 1	Heart Clot. Heart Disease. 18 9 7 13 23 16 11 18 17 23 26 20 37 28 29 16 11 14 18 17 23 26 20 37 28 29 16 11 18 17 23 26 20 37 28 29 16 11 18 17 20 37 28 29 16 18 18 18 18 18 18 18 18 18 18 18 18 18	Heart Disease 18 9 7 13 23 16 11 18 17 23 26 20 37 28 28 16 1 10 1 14 21 10 9 14 21 10 9 14 21 10 9 14 21 10 9 14 21 10 9 10 10 10 10 10 10 10 10		Disease, Organic 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	146 104 113 112
Head, Inflammation in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Head, Injury to Head, Sore Heart Clot Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease	Head, Injury to Head, Sore	Head, Injury to Heart Clot. Heart Clot. Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease Heart Disease	Heart Clot. Heart Disease 18 9 7 13 23 16 11 18 17 23 26 20 37 28 28 16 11 16 17 20 20 37 28 28 16 11 18 17 20 37 28 28 16 11 18 17 20 37 28 28 16 11 18 17 20 37 28 28 16 10 3 10 3 10 3 10 3 10 3 10 3 10 3 1	Heart Disease 18 9 7 13 23 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 20 20 37 28 28 16 11 18 17 20 20 37 28 28 16 11 18 17 20 20 37 28 28 16 11 18 17 20 20 37 28 28 16 11 18 17 20 20 37 28 28 16 11 20 31 31 31 31 31 31 31 31 31 31 31 31 31	Heart Disease 18 9 7 13 23 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 23 26 20 37 28 28 16 11 18 17 20 26 20 37 28 28 16 11 18 17 20 30 37 28 28 16 10 10 10 10 10 10 10 10 10 10 10 10 10		enlargement of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Females		- - - ,		
	Heart, Fatty Degeneration of			
64	Heart, Inflammation of	64		
				_;
Females		1		
Mates 1 1 1 1 1	Heart, Neuralgia of			
1 1 1				
1	Heart, Ossification of			
2 1 1 2			1	
Fomales 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Males 3 1	Heart, Palpitation of	-		
Females 1. 1 1 1 4 1 2 2.			1	:
Females	Heart, Paralysis of	-		:
Females	Heart, Rupture of			_:
1 1 1 1 1 1	Heart, Valvular Disease of		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
04				
1	Heat			
Females	, , , , , , , , , , , , , , , , , , , ,			
Males 1.	Hemorrhage from Bladder			
Total 6 6 3 3 3 3	Hemorrhage of Bowels	1	1 1 1 2	:
Males 5 1. 1 5 3 2 2 2		1		:
Females 1 3 1 1 1				
Females 1	Hemorrhage, Internal			
Males 1	Hemorrhage from Leg.			
Females 1 1 1	Hemorrhage of Liver			
Males 1	Hemorrhage from Nose			
Females				:

TABLE XVII.—Continued.—Specified Causes of Death.

				-	MONTH	TIIS	F	1874	J.						Y.	YEARS.			_		_			¥	Agres	Z	PR	MIN	2	5	Pentons or Trans, -1874.	ž	=	ť		
SKX.	January.	February.	March	. IraqA	May.	July.	August	September.	October,	November.	December.	Unknown.	7281	1873.	.278£	1871.	1870.	1869,	1	CAUSES OF DEATH.	Under b.	.01 ot 6	10 to 12	12 to 30.	22 or 02 1	32 to 30	199 01 02	.01 oz 58	.63 of 03	1 42 10 20	. 50 to 56.	55 to 60.	.60 to 65.	20 to 19	78 et 67	Sil and over.
Females	1		1	- 1	-	- :	- 1	- 4		- 1	:	1	1		1	1		- 1		Hemorrhage, Puerperal	1	- :		- 1	:	_0	_ ;	. :	:	. :	:	-	:	- 1	:	
Males	:	1	-	-	-!	-:	- :	_ ;	- :	:	-1	I	01	Ó.		i	1	- 1	H	Hemorrhage of Stomach	1	- 1	- 1	- 1	- 1	-	- 1	. :	:	:	- 1	÷	1	-	-:	+
Females	- 1	$\vec{}$	1	-:	-:	_:	1	_:	:	_ ;	- ;	- (1	1	7	1	1	1			- 1	-		- 1	- 1	:	- ;	- 1	- 1	- 1	- ;		-:	-	-	-;-
Females. 1		i	:	_	-	04	- :	- 1	-	-	- 1	:	9	-	4	01		_	1 He	Hemorrhage, Uterine	1	+	- :	-	-	-	- 1	44	-	:	- 1	÷	+	-	:	-:
Total	- ;	-1	-	1	1	-	-	- 1	01	- 1	- ;	- 1	10	39		17	=		15 He	Hemorrhage		29		-	.:	- ;	-	1.0	-	:	1	-	- 1	-:	_	1
Males		i	;	-:	-		7	- ;	04	- 1		- 1	*	00		23			6		:	01	-:	-	:	-1	:	. ;	-	:	- 1	-		-	:	+
Females	- 1	-:	-	- 1	-	-	- !	- ;	:	- 1	:	- :	1	=	_	10	10	14	9		+	+	- 1		- :	1	-	- (:	:	:	-	:	-:	1	- 1
Total	- 1	1	1	1	-		- ;	- 1	-	- 1	- 1	- 1	04	-		1	1	1	H.	Hernia, Abdominal	1	÷	-	:	- 1	- 1	-;	1	- :		- (-	+	÷	-	-
Males	:	i	- :	- ;	-		1	- 1	:	- ;	- 1	्र	1	;		i	- 1	1			1	1	- 1	- ;	- :	- 1	- 1	_:	- :	:	:	-	- :		;	:
Females.		1	1	1	- 1		- 1	- 1	-	- 1	- 1	:	-	-	- 1	1	1	1			1	1	-1	-:		-1	:		:		- 1	-	:	÷	_	-
Males		-	1	1	- 1	- 1	- 1	- 1	- ;	-;		- ;	1	1	1	1				Hernia of Brain	1	1	1		-;	1	:	1		:	-	÷	-	+	-	-
Males	-:	÷	1	-:	- 1	-	- 1	- 1	:	- 1	- 1	_1	i	-	1	1		1	He	Hernia, Irreducible Scrotal	1	+	- :	:	:	:	- :		:	:	- 1	-:	+	4	-	-
Females	1	i	1	- 1	+	- 1	:	:	-:	- 1	. 1	_:	1	-	1	1	1	1		Hernia of Lungs	+	+	- :		:	- 1	:			:	:	-	-:	+	÷	-:
Females.	1	i	+	+		_	- 1	- 1	-:	:	- 1	- 1	1	- [1	1	-	1	He.	Hernia, Umbilical	1	+		- :	:		:	4	- 1	- :	- 1	:	-	:	:	
Total	H	-	1	01	01	64	- 1	-	_:	04	:	_1	=	8	12	2	15		18 ITe	Hernia (Unspecified)	*	DR	-	-	- 1		:	-	-	:	T	-	C9	99	-	-
Males	T	H	1	01	-	01	:	:	-:	-			-	7	-		12	-	-		- 1	-	-	:	:	:	:	-	:	1	1	-:	ÇN.	-	-	-
Females. 1		;	- 1	1	-	- 1	-	-		-		1	*			-	-		-			÷	-	:	1	1	1		-		:	÷	-	59	_	:
Total	- 1	i	- 1	1	-	-	-1	-	_:	:	-	-:	60		2	59	_	9	g III p	p Disease	1	1	-	1	1.0	1	-	. 1	-	:	1	÷	÷	÷	÷	+
Males	-	1	- 1	1	_	-	- 1	-	- :	_1	- 1	- :		63		01		20	01		:	-	-	_:	- :	1	-		:		1	÷	+	-	_	+
Females.			-	1	-	-:	-:	- 1	:	1	-	- ;	1	1	1	-	_	04	:		1	1	- 1	:	-	1	1		-	3		÷	÷	-	_	1
Males		-	-;	-	-	-	_	- 1	_		:	-	11	4				_	E	Hip, Injury in	÷	-	_	_	_:	-	_;	3	:		-;	-	-;	-:	-:	-;

Total	1	1	1	-	01	-	9	80	7	•	1	H	Homicide		=	=	1	1	T	+	1	1	:
Males	:	:	-1	-	91	1	00	1	*	*	1	•		- †	1	-	1	1	-	1	i	1	:
Females	1	:	1		:	-	01	-	1	÷	1	1		1	-	1	1	-	1	- :	:	- ;	:
Males	1	1	1	:	1	- 1	_1	- 1	-		- 1	-	"Horse Disease"	1	:	1	1	1	1	:	1	- 1	:
Males	1	1	i	- 1	1	1	- 1	:	-		-		"Hung Himself"	1	:	- 1	1	:	1	1	i	:	:
Males	1		i	1	1	1	-	1			-	Д.	Hydrocele	-	- ;	1	1	1	- (:	1	1	:
Females	1	1	1	1	:	1	1	-	1		-	-	Hydrocephalus, Acute	1	- 1	1	-	1	:	:	i	- 1	:
Males	1	1	1	- 1	- 1	1	1	-	1	- 1	-	-	Hydrocephalus, Congenital	1	:	1	;	1	1	1	i	1	:
Total	:	-	- 2	-	1		9	00	10	10	20	8	Hydrocephalus	1	1	1	1	1	;	1	i	- :	:
Males	:	1	1	-		-	00	61	10	00	1	63		60	:	3	1	1	1	:	:	:	:
Females	1	~	1	-	:		60	+	07	01	01	10	*	1	:	:	1	1	1	-	;	:	:
Males	1	:	1	- 1	1		- 1	-)	-	-	-	1	Hydrophobia		- 1	1	:	1	1	1	1	1	_:
Females.	1	1	1	01	- 1	1	Q4	- ;	i	·		-	Hysteria	1	1	1	1	1	1	1	1	1	:
Males	1	.)	1	1	1	1	1	-	-		1	-	Ice Water, Drinking of	1	-	1	1	1	1	+	1	- 1	;
Males	1	1	1	1	- 1	:	1	-	01	¥	1	-	Inanition		- 1	- 1	1	1	1	- 1	i	1	_:
Females	:	:	1	1		:	1	-	60	-		1			1	:	1	1		1	1	1	:
Total	:		н	94	;	-	40	00	-	-	1	-	Indigestion	1	- 1	1	1	1	- 1	-		1	:
Males	1		1	-		-	O1	04	- 1	-	- 1			01	1	1	1	1		1	1	1	:
Females	1	.4	-	-	1	1	00	Т	-	-		1		01	1	1	1	1	1	-	1	1	:
Males	1		1		1	1	- 1	- ;	7		1	-	. Incrvation	1	1	:	1	1	1	-	1	1	:
Total 1	:	1	1	01	ì	-	00	-1	1	-	1	-	Infanticide	30	-:	1	1	+	- 1	1	1	- (:
Males	•		-	-	1		01	- 1	1	-	1	1		; es	-	1	1	1	;	1	1	1	:
Females	4		:	-	1	1	-	-1		-	1	1	•	7	1	1	1	1	1	1	1	1	:
Total 1 1	1 1	10	7	-	90	00	33	8	73	86	37	165	19 Infantile		1	1	1	1	1	1	1	1	:
Males	1	20	н	-	80	10	16	8	28	22	20	22		16	1	:	1	1	1	1	1	1	:
Females. 1 1	1 1	01	1		1	00	6.	8	9	9	11	7	***************************************	6	1	1	1	1	;	.1	:	+	_:_
• Incl	A Includes 1 "Strang	Stran	gulated."	2								See	See Dropsy of Brain.								ļ		i

. Includes 1 "Strangulated."

TABLE XVII.—Continued.—Specified Causes of Death.

			~	M ox	Моктия, 1874	18	7.						7	Y EARS.							•	AGE	= 2	AGES IN PERIODS	ERI	8	6	or Years, -1874		<u> </u>	÷		
SEX.	January.	March.	April.	.Yak	.vint.	Augus	September	October	November	December.	1824	,8781 j	. 278I	1871.	.078I	.098I	CAUSES OF DEATH.		Under 5.	1 5 to 10.	10 to 10.	12 to 20.	1 20 to 30,	20 to 30.	22 to 40	40 10 45.	.06 to 50.	. 50 to 55.	1 90 10 92	02 of 69 1	.67 or 07 j	,08 of 57	30 and over.
Unknown	- 1	1	- 1		- 1		I IV	- 3	- :	- 1		0.15	1	-	i		Infantile	1		1	-	-	1	- 1	- 1	_ }	- 1	1	1	1		4	
Total	10	9	21	10	1	K	02	-	*	-	36	65	8	16	-	- 1	Inflammation	1	16	-	-	-	*	-	00	7	7	1	1	01	01	01	
Males	7	10	24	01	+	Q1	01	-	60	00	98	2	8	6	į	1		1	77		-	- 1		1	- 1	- 1	-)	- 1	1	01	01	-	
Females.	01	00	;	-	. :	93	-	- 3	-	-	16	18	92	7	H	j		1	10	-	:	-	01	-	00	-	-	:	:	+	- 1	-	
Total	-	- 1	7	1	- 3	-2	;		- 1	+	-	27		64	1	_	Influenza	4	1	1	-	÷	1		:	- 1		- 1	1	1	- 1	- 1	
Males	-	- :	-	- 1	-1		1	:	-:	:		92	- 00	:	- 1	1	,	1	7	1	Ť	÷	;	-	- :	1	1	1	1	- 1	1		
Females.	1	-1	-		-1		1	:	-	- 1	_	01	.00	69	i	j	3	1		1	÷	-	- 1	1	- [-1		- 1	1	1	- 1	-1	
Total	1	1	;		- 1		1	-	1	00	60	- 1	_	01	1	1	Injury at Birth.	i	90	-;	÷	÷	-	- 1	-;	:	-	:	:	:	1	- 1	
Males	:		1		- ;		÷	-	-1	-	_	- 1	_	1	1	1		1	н	1	÷	÷	:	- !	1	- 1	1	1	1	:	;	-1	
Females	1	- 1	1	-	- 1		Ť	:	:		4	1	- 1	-	1	į		1	01	1	Ť	+	1	1	- 1	_(- 5	-	÷	1	- ;	- 1	
Total	1 1	- 1	1	-	-1		Q1	-	1	-	-	21	=	31	13	19	Insanity	- 1	- 1	-	÷	+	-	-	:	-	G)	1	-	-	1	1	
Males	-	- 4	+				1	-	- 1	- 1	_	*	9	10	43	15		i		1	÷	+	1	1	- 1	:	-	1	;	:	1	-1	
Females.	-	1	-1	-	1		04	-	-		9	90	ю	10	00	-		1		:	÷	+	1	-	-	-	H	1	-	1	1	-1	
Total	:	T	-	-	01		01	00	=	:	15	9	6.	1	10	30	10 Intemperance (See Whisky)	4		- 1	+	+	1	01	1	60	1	т	-	01	1	- 1	1
Males	1	-	1	-	01		01	C1	-	60	2	9	- 00	13	6	di	:	1	•	-	÷	1	1	63	-	01	7	1	-	61	1	- 1	
Females .	1	1	-		1	= **	1	=	+	- 1	01	1	_	-	-	01		i	-1	1	÷	+	1	÷	_:	-		:	1	1	- 1	-1	- 1
Males	1	1	÷	-	1		1	1	1	- 1	1	-1	_	1	1	1	Intestines, Closing of	1	-1	1	1	+	ī	1	-	1	- 1	1	1	1	1	1	
Total	1	Ţ	+	-	1	,	1	+	:	- 1	04	1		1	1	-	Intestines, Stricture of			1	Ť	÷	7	-	-)	- 1	:	1	1	-1	1	
Males	1	H	+		1		-	+	1	- !	-	1		1	1	-	:	1		:	1	+	÷	+	1	1	,	i	÷	;		1	
Females	1	1	-		1		1	+	:	- 1	-	:		1	1	-	:	:	*	1	+	÷	1	1	-	1		1	1	÷		- 1	
Males	1		- 0	_	- 1		-	-	-			-	_				To to to to to to to to to to to to to to					-	_	_	_		Ξ		-	_			

Total 1 1	Ξ	=	1 1	=	8	9	3	Ξ	<u>-</u>	- 38	197	Si .	n I	8	=	11 Jaundice	I	=	1 2	92	1 2	=		÷	$\dot{\Xi}$	•
Males	-:	$\vec{}$	- :	:	64	- 04	-	:	\div	-	-	13	7	23	80		:	-	-	=	1			$\frac{\cdot}{\cdot}$	\equiv	•
Females	:		_	_:				_:	-	<u>.</u>	0	12	69	7	8	01	:	=	64	-04	-		_	- ;		:
Males	:	<u>:</u>	-:	-:	-	$\frac{1}{2}$:	_:	- ;		- !	-	•	-	:	Jaw, Discase of Lower	:	<u> </u>	-:		-:	_ <u>:</u>	:	<u>:</u>	-:	:
Total	=	- 64	-	_		-:		7	01	14	9	=	2	69	-	Kidneys, Bright's Dis. of	11	_	~			<u>:</u>	; ;	_	_:	-
Males	:	61		-	-	-	:	-	- 04	<u> </u>	7	80	~	64			-	_					.:	$\overline{\cdot}$	=	:
Females 1	Ξ		- 01		:	-		:	$\overline{\cdot}$	9	61	10	8	$\frac{\cdot}{\cdot}$	-	***		<u>:</u>	-	-:-		:	<u>:</u>	-	<u>:</u>	-
Males	:	-:	-:	_:	$\frac{\cdot}{\cdot}$	÷		:		<u> </u>		_	<u> </u>	÷	-	Kidney Complaint, Chronic	- - - - - - - - - -	\pm	_ <u>;</u>	\pm		<u>:</u>	=	:	=	:
Total 1	91	- -	_	Ξ	è	-	69	•	===	<u>8</u>	2	8	2	23	8	Kidney Disease	1 1	:	69	61	:		8	- 80	61	:
	-	- -	-	-	64	=	-	- 80	64	8	8	81	8	a	81		1	:	:	-	=		69	89	61	:
Females 1	=		:		=	- -		*	=	유 	0	-	•	00	-		1	:		_	-	-	_	-	=	:
Males	<u>:</u>	-;	<u>:</u>		$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	-:		- ;		_	Ī	$\frac{\cdot}{1}$	\div	亍	Kidneys, Enlargement of		\equiv	:	=	:		<u>:</u>	:	:	:
Total	-;		**				*	-39	$\frac{\cdot}{\cdot}$	9	3	2	22	2	**	8 Kidneys, Inflammation of 8 1	1 20	=	-	⋮			_	$\frac{\cdot}{\cdot}$	01	:
Males	-:	- 69	60	*		- -	64	01	:	=======================================	=======================================	•	0	-	-				- ;	=	<u>:</u>	\equiv	*	- ;	01	:
Females	-:	:	-:	61		\div	*	_:	\div	*	4	8	•	_	ø	:	=======================================	$\frac{\cdot}{\cdot}$	-	Ė	:	:	Ξ	$\frac{\cdot}{\cdot}$:	:
Malos	:		-:		$\frac{\cdot}{\cdot}$	- ;	<u> </u>		-			_	- :	$\frac{1}{1}$	-	Killed by Violence	:	:	:	:		<u>:</u>	:	-:	:	:
Females.	_:				-	- :		_:	-:		_	i	+	$\frac{\cdot}{\cdot}$	亍	Kine-pox	- <u>:</u> - <u>:</u>	Ť	<u>:</u>		:	- :	_:	<u>:</u>		:
Males	-:				_ ;	- :			-				-	$\frac{\cdot}{\cdot}$	-	Laryngitis, Acute	:	$\frac{\cdot}{\cdot}$:	=	-:	_ <u>;</u>	:	:	=	:
Females	:	:	_;		ij	$\frac{\cdot}{\cdot}$	_;	_:	$\frac{\cdot}{\cdot}$		61	i	+	$\frac{\cdot}{\cdot}$	-	Laryngitle	=======================================	:	:	:	-	<u>:</u>	<u> </u>	:	=	:
Males	- 1	;	:		-;	$\frac{\cdot}{\cdot}$	_ <u>:</u>		-		_	-	-	$\frac{\cdot}{\cdot}$	盲	Leg, Diseased	:	:	<u>:</u>	:	:	- 	:	$\frac{\cdot \cdot}{\cdot}$	-:	:
Males	:				-:	- ;			$\stackrel{:}{\dashv}$	-		-	$\frac{\cdot}{1}$	$\frac{\cdot}{\cdot}$	Ŧ	Leg, Inflammation of	_ <u>;</u>	=	- :	<u>:</u>			1	$\frac{\cdot \cdot}{\cdot}$	-:	-
Females	-:	:	:	:	:	:	<u>:</u>	:	\div	<u> </u>			÷	\div			:	:	:	:	$\overline{\div}$	<u>:</u>	:	÷		:
Males	:	:	<u>:</u>	三	;	-	<u>:</u>	:	\div		1	Ī	-	+	-	Leg, Loss of.	:	$\frac{\cdot}{\cdot}$:	<u>:</u>	:	<u>;</u>	:	:	\equiv	:
Females	-:	\div	<u>:</u> :	<u> </u>	i	<u>:</u>	<u>:</u>	:	:	<u> </u>	64		<u> </u>	$\dot{}$	〒	Leg, Ulcer in	:		- 1		:	$\frac{\cdot}{\cdot}$:	:	Ė	•
Males	-:		-:	:	<u> </u>	:	-:	_	÷	- -	1	Ī	+	<u>:</u>	<u>-</u> -	Leprosy	:	:	:	:		$\frac{\cdot}{\cdot}$	_	:		:
Total	三	\div	÷	4	01	<u>:</u>	<u> </u>	三	$\frac{\cdot \cdot}{\cdot}$	• ·		•		7	=	Lightning	64	三	-	<u> </u>	=	三	=	$\frac{\pm}{}$	主	:
. Includes 1 "Epizooti	8	=	pig		9			i				b Inc	lude	80	Ale	b Includes 3 "Alcoholism," and 1 "Whisky Fits."				S.	. See Intussusception.	tuss	nBce	ptio	ä	1

TABLE XVII.—Continued.—Specified Causes of Death.

				Mo	MONTHS,		1874	4			_			YEARS.	,				_			V	AGES	N.	PERIODS	100	30 S	A	EAR	YEARS,-1874	1874			
SEX.	January.	February.	l April.	May.	'aune'	July.	August, September,	October,	Xovember,	December.	Unknown, I	781	1878.	1572.		1870.	'698I	CAUSES OF DEATH.		Under 5.	51 ot 01 1	10 to 15.	20 to 25.	.05 to 30.	.66 of 05.	.01 of 68	40 to 45,	42 to 55.	55 to 60.	'99 or 09	.07 of 50	. 70 to 75.	108 of 67	Unknown.
Males	- 1	1 1			60	_	-	:	- 1	14	-:	10	69	10	90	9	6.0	Lightning	1	1	- 1	1	1 1	- 1	- ;	1	. 3	.01	1	-	- 1	1	-	1
Females.	1	:		- 1	-	1	+	÷	- 1	1	1	-	03	-	-	-	-		-	1	-	-7	1	- ;	-1	1	-	1	+	1	- 1	- 1	÷	1
Males	1	- 1	1	- ;	-	-	1	-	- 1	1	1	+	1	-	1	- 1	1	Limbs, Inflammation of	1	4	-	+	- 1	- 1	1	-	÷	-	-	- 1	- 1		- ;	:
Males	1	:	;	1	i	i	- 1	- :	- 1	- 1	-	. 1	-	-	1	1	1	Liquor and Exposure to Cold	1	i	-	- 1	- 1	- ;	-1	1	1	i	- 1	- 1	- 1	- 1	:	- ;
Total	-	6.	00	-	9	to	6	100	12	90	-	76	93	83	22	22	47	Liver Disease	4	7	04	1	69	-	*	-	60	19	9 11	91	7	60	-	-
Males	61	63	20	4	4	01	-	7	2	10	1	9	69	45	62	40	98	" "	-		=	1	60	-	-	-	-	00	10	10	10	91	- 1	÷
Females	C4	64	10	90	01	-	10	10	D0	80		36	7	28	52	35	17	, ,	1	*	-	-	1	- 1	20	:	O.	00	*	7	01	-	H	-
rotal	1	01	-1	-	-1	-	-	-	-1	- (-	- 5	*	9	-	9	-	Liver, Enlargement of	1	-	-	1	-	1	- 1	1	-	- 1	-	-	- 1		1	1
Males	_	61	- (- (i	1	- ;	-	-	1	-	*	61	**	-	-	1			H	÷	+	-1	-:	- (- 1	1	-	-	-	- 1	- 1	Ť	1
Females		-	1	-	:	-	1	+	1	1	1	61	01	00	:	*	-		1	1	÷	1	:	- 1	- 1	;	=	1	-	1	:	. 1	Ť	- 1
Males	1	1	- 1	:	1	+	+	÷	- !	1	- 1	- 1	-	+	1	+	1	Liver, Fatty Degeneration of	1	1	-:	1	- :	-1	4	-1	÷	-	-	_ :	_:	- 1	-	- :
Total	1	63	-	64	04	÷	1	-	_:		1	=	10	=	10	9	10	Liver, Inflammation of	1	04	÷	1		-	. :	-		00	:	60	-	- 1	7	- 1
Males	i	1	-	64	-	4	1	-	-:	1	-:	2	10	-		-	c,	n n	1	-	÷	- 1	- 1	:	- 1	-	:	94	- ;	61	-	. 1	-	- :
Females		1	- 1	- 1	-	i	:		_ :	-	:	4	10	*	99	10	60		1	-	÷	1	- 1		:		:	-	- 1	-	- 1		1	
Females		1	1	. :	- 1	i	+	+	:	- 1		+	+	+	1	-	1	Liver, Inflammation of, Chronic		1	- ;	1	. :	- 1	- 7	:	-	1	- 1	- 1	- 1	;	1	1
Females.		1	-1	1	1	1	+	÷	1	- 1	1	;	-	1	:	1	1	Liver, Scirrbus of	1	1	-	+	-1	- 1	-1	1	-	+	- 1	-:	:	1	1	+
Males	1	+	- (ï	1	i	+	÷	- 1	1	+	1	- 1	-	1	1	1	Liver, Ulceration of	1	Ť	÷	+	- 1	-	- 1	- 1	-	1	1	1	_	1	1	+
Females		1	- ;	;	i	+	1	+	- :	1	1	-;	-	1	1	1	1		1	1	1	-	1	- ;	- 1	-	-	÷	1	-!	- ;		1	1
Total	12 11	1 22	88	83	*	00	=	13 20	18	30	:	200	72	173	152	124	112	Lung Disease	1	82	9	10	5 4	4	9	00	00	10	11 0	13	7	00	00	01
Males 10 6 15 23	10	6 15	83	8	-	10	-	7	7 11	=	-	126	1 10	22	83	98	67		1	9	90	-	4	-	9	*	0	60	10	7 8	6	-	9	94
Females. 2		19	KO	80	-	20	-	6 13	-	c		29	7.8	8	9	74	;			*0						•	-	-	-	_	_	•	1	-

Females. -	-										
Females	1	-	1	1	Lupus	***************************************	1	- 1		٦	1
	*	7	-	00	Malformation	-	;	- 1	-	:	- 1
1	01	-	1	60		60	1	1	:	- 1	- 1
1	1	1	1	1	*		1	:	:		1
:		-	- 1	1	Mania, Puerperal		1	1	1	1	1
Males	-	1	:	1	Mania	q	1	1	1 1 1	1	- 1 - 1
Females 1 1 1 3	-	1	1	-			1		- 1 1 1		1
Total	10	60	:	1	Marasmus .	7	1	1	1	:	1
Males 2 1 3	9	01	- 1	- 1	=	00	1	:	1 1	:	1
Females 1 2 11 5	*	-	1	-	=		1		:	:	-
12 8 5 2 4 2 1 46	245	180	67	56 147	Measles	31 2	01	61		1	:
Males 1 2 1 4 5 2 1 2 2 1 21	109	92	28	98 98		17	1	-	1	1	1
Females. 1 2 4 1 8 3 3 1 2 25	136	104	81	30 63		14 2	63	-	:	:	1
Females.	1	69	1	- 1	Medicine taken by Mother	-	:	- 1		-1	:
1	01	1	- 1	-1	Melancholia	1		- 1			:
	-	+	1	- 1	Melanosis		1	- 4		- 1	1
Total	-	13	01	-	2 Meningitis.	b	1		1	1	1
Males	10	10	1	-			-	1	3	:	1
Females	G#	99	-	-		01	1	- 1		-1	1
Females	1	+	1	1	Meningitis, Cerebral	1	1		1 1	:	1
Total 1 4 7 2 2 2 2 2 2 4 33	145	79	01	-	Meningitis, Cerebro-Spinal	17 5	64	-	1 1		3
Males 3 4 1 1 1 2 1 1 14	88	17	-	-		9	-	-	I	-	1 1
Females 1 1 3 2 1 1 1 2 1 1 2 3 19	26	38	1	1		11 2	-		1	-	1
Unknown	1	1	-	1			1	i	1 1	1	1
Females	1	1	-	_	Meningitis, Chronic	-	1	ï	1	:	1

TABLE XVII.—Continued.—Specified Causes of Death.

				Z	MONTHR	E ,	_	1874.							YEARA	z								Ψ	2	×	Ages in Periods of Tears,—1874.	10D	9	¥	3	, -	187	4		
BEX.	January.	February.	March.	April.	'aune'	July	AsoguA	September.	October.	November,	Весешбет.	Unknown, I	1874.	.8781	.2781	11281	1870.	1809.	CAUSES O	CAUSES OF DEATH.	Under 5.	.01 ot 8	10 to 15.	15 to 20.	20 to 25,	.05 to 30.	.00 to 40.	, de to 45.	.00 of 62	20 to 22.	.09 of 55	.60 to 65.	.07 of 65 1	1 70 to 75.	1 12 to 80.	.Tovo bas 08
Total	_	*	01	9	7 5	00	9	**	-0	20	C+	- 1	8	166	47	01	-		Meningitis, Spinal			10	-	*	64	-	+		68	_1	-4		- 1	- 1	-:	100
Males	+	49	-	- 60	69	-	-	63	- 64	- 1	04	-:	8	2	23	-	1				15	-	4	99	64	÷	- 1	_	69		-	- (- ;	1	1	1
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Females.		÷	-1	-1	- 1	i	- 1	. 1		:	:	1	1	1	1	-	1	1	Metro-peritonitis.		1	- 1	:	i	÷	+	+	÷	+	1	- 1	- 1	- 1	1	1	
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Males	:	:	:	1	_	1	-	-	-1	1	-	7	1	+	+	- 1	N	Neuralgia in Head	******	1	1	1	İ	÷	÷	+	-	1	1	-:	- 1	:	1	•
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Females 1	1	1	1	-	_	+	- 1	- 1	1	1		-	1-	4	-	9	60		-	1	1	- 1	i	-	:	- 1	1	-	1	-	-1	- ;	- 1	:
Total 21 24 33 36 38 39	7	55	38	8		43	31 46	3 41	4	8	1	88	88	100	372 31	313	310 Old	ld Age		1	-1	- 1	i	÷	-1	4	- 1	~	7	6 14	20	84	251	64
Malea 8 9 9 90 11 17	90	0	8	=	_	24 12	13 25	2 18	22	18	-	56	226	17	179	- 291	153	" "	-	1	-1	- 1	i	÷	1	- 1	1	- 1	1	9	27	8	108	_
Females. 13 15 24 16 27 12	13	15	4 16	13	_	10	18 21	8	25	55	1	233	202	213 19	193 16	199	157		-	- 1	1	- 1	i	1	1	- :	- 1	-	1	61	5	35	143	_
Females.	-1	1	1	1		÷	- 1	:	1	-1	+	1	1	-		-	0	Operation for Tumor	-	:	1	- 1	i	÷	- ;		-1	1	1	-	4	1	1	•
Females 1	1	H	- 1	1		:	1	- 1	-1	-1	1	-	1	+	1	1	0	Opium Eating	-	:	1	- 1	1	;	1	1.	-	1	1	- 1	-1	-	1	•
Males	1	1	1	. ;	_	÷	+	-	1	-1	÷	1	1	-	1	÷	0	Ossification of Blood Vessels		-	.1	1	i	÷	+	1	1	1	1	-:	- 1	Ť	:	•
Males	1	:	- 1	ा	_	1	1	1	1	- 1	1	1		-	- 1	+	0	Osteo-sarcona	-	1	1	-1	i	÷	1	1	- 1		1	- 1	-1	1	1	
Males	- (-	1	;	1	+	+	- 1	1	- 1	+	1	1	-	+	÷	0	Otorrhea	i	+	- 1	:	i	÷	+	+	1	i	1	- :	- 1	i	1	
Females	-1	-	1	-1		÷	- 1	-:	1	1	1	1	•	-	-	÷	0	Ovarian Discase	-	;	1	1	i	+	+	1	1	1	1	-:	:	i	:	•
Females	3	1	;	;	_	+	1	1	1	- 1	1	1	00	10	60	60	30	3 Ovarian Tumor	1	- 1	1	1	i	+	1	1	1	1	-	- 1	1	1	1	•
Femalos.	1	1	1	1	_	÷	+	-	1	ī	:	-		+	+	÷	0	Ovaries, Rupture of	1	1	1	-	i	+	+	-1	:	Ť	÷	-:	1	i	-1	•
Females	1	1	1	1	_	1	1	1	- 1	-1	+	1	1	+	,	04	0	Ovariotomy.	-	1	- 1	1	i	1	1	-1	1	- 1	÷	.)	:	:	1	
Females	1	1	1	1	_	1	1	-1	1	1	1	1		-	1	- 1	0	Overdose of Calomel	:	1	1	İ	i	+	- 1	1	:	j	÷	1	1	i	4	•
Males	1	1	1	1	1	1	- :	1	1		+	1	1		-	1	0	Overdose of Chloroform	-	1	1	1	i	:	-	1	1	Ì	÷	-	1	i	1	
Females	1	+	1	1	Ť	+	1	1	1	Ť	+	1	+	1	01	-	-		T	+	1	- 1	÷	÷	+	+	1	1	1	+	1	Ť	1	

. Includes 1 "Nervous Derangement."

Death.
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Causes
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VII.
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TABLE

				_	MONTES, 1874.	Ę	8	ž							×	YEARS.					_			Ac	2	Ages in Periods of Years,-1874.	PE	101	9	, ,	3	Ę,	3	÷		
SEX	Lounney	Peternary,	March.	\ \pu	May.	June	July.	I September,	October.	November.	1 ресепрет.	Unknown.	'72SI	1873.	1872,	1871,	'02St		1869.	CAUSES OF DEATH.	Under 5.	1 6 to 10,	1 10 to 12	12 of 61	30 to 25.	1 25 to 30.	1 20 to 32.	1 22 to 40.	GP of Ob	.05 of 64 1	1 20 to 20	,60 to 65,	1 65 to 70.	.07 04 07 1	.08 or 67	1 80 and over.
Males	- 40	1	-	1	1	Ť		- 1	- ;		- 1	- 1	1	- 1	1	-	-	:	:	Overdose of Gelseminum			- :	- 1	- 1	- 1	- 1	-:	1	- :	- 1	_;	- ;	- }	- 1	- 1
Males	-	- 7	1	;	1	1	÷	+	- 1	- :	-;		1		- 1	- 1	1	:	ī	Overdose Hydrated Chloral		- ;		- 1	- 1	- 1	- 1	1	- 1	1	-	- 1	1	- 1	_ :	- 4
Femalos.	÷	1	1	1	1	1	÷	- ;	- 1	- 1	- 1	:	i	1	-	-	1	1	Ĭ	Overdose of Medicine		;			- 1	- 1	- (1	- ;	-	+	- 1	1	- 7	:	:
Males		;	1	1	1	-	÷	+	:	- 1	- ;	:	i	i	_	-	1		Ť	Overdose of Morphine		- (- ;	1	:	:	1	1	1	i	÷	+	-1	1	- 1	1
Femalca.		1	÷	1	-	-	÷	+	:	1	-1	1	1	1	-	00	-	- 1	1		. 1	:	-:	- !	1	-;	1	- 1	i	Ť	-	+	1	-	- 1	1
Males		:	i	1		1	÷	+	1	- 1	- 1	:	1		01	1	1	-1	:	Overdose of Opium.	,	;	-	- 1	ः	1	1	- 1	-	:	÷	-:	_:	- 1	- 1	- 1
Females	·	:	i	-	1	1	÷	÷	:	- 1	- 1	.;	- }		_	-	1	-1	. ;		-	1	- ;	- ;	-1	- 1	- ;	- 1	•	:	1	1	1	- 1	1	- ;
Females		- 1	i	1	1	:	÷	+	1	-	- 1	ः			-	- ;	+		1	Overwork and exposure	- 1	-:	-:	1	1	- 1	- 1	- 1	:	1	÷	- 1	- ;	- 1	- 1	1
Females	- 1	1	1	- !	1	1	÷	+	1	- !	-	4	7	1	- 1	-1	+	1	1	Pancreas, Enlarged, Rupture of	lu.	- 1	- 1	- ;	_;	- ;	- 1	- 1	-	i	+	- :	- 1	- 1	1	- 1
Males	1	_1	1	1	1	-	-	+	:		- 1		61		-	+	1	00	1	Paralysis, General	7.1	1	-	1	1	1	- 1	H		-	÷	1	_	1	- ;	- 1
Females		_1	1	1	1	1	÷	+	- 1	- 1	- 1	-:	1	1	1	1	1	01	1			- 1	- :	-:	- 1	-	- 1	- 1	- 1	1	1	1	-1	:	- 1	- 1
Males		;	i	- 1	1	1	÷	+	-	1	-:	1	1			+	1	:	1	Paralysis of Insane, General	77	1	- ;	-	1	1	1	- 1	T	- 1	-	+	- ;	:	- 1	1
Females.	1	;	÷	1	1	-	÷	+	-	-	1	:		-	-	+	- 1	:	-	Parnlysis of Lungs		:	÷	- }	- 1	1	. 1	1	- 1	1	÷	- 1	-	1	ा	1
Fomales			1	1	1	1	+	+	+		1	- 1	1		-	1	1	U	;	Paralysis, Rheumatic	+	- 1	1	1	-1	. 1	-1	- 1	1	1	1	+		- 1	1	- 1
Total		-	;	1	1	1	÷	÷	- 1	- 1	1	- ;	-	01		+	:	:	;	Paralysis, Spinal	+	+	-	-	1	- ;	1	1	1	1	1	1	01	:	. 1	:
Males	1	- 1	÷	1	1	1	Ť	- 1	_	1	-			1	- 1	- !	+		:		- 1	1	- ;	1	1	- 1	- 1	:		1	÷	- 1	-	-	:	:
Females	1	-	1	1	1	1	÷	÷	+	1	:	- 1	-	1	1	+	1	1	- (1	1		- :	- 1	- 1	- 1	-1	1	:	÷	1	-	-	1	1
Females.	i	- 1	1	1	1	1	÷	1	-	- 1	1	1		1		- 1		1	1	Paralysis of Stomach	1	:	·	-:	:	1	1	:	1	1	1	+	-	1	7	:
Total	9	90	13	13	=	08	10	75	18 15		5		169	170		104	144 1	116	130	120 Paralysis	- 1	00	63	7	-	100	60	6	9	9	10 2	20 11	11	1 28	13	13
Malea	00	+	1-	9	-	13	-	19	7 10	-1	=		6	80	10	82	88	99	8		.1	00	-	O1	1	-	-	7	60	10	10	6	7 19	18	13	21
Females.	60	*	9	9	4	7	9	-9	11 6	4	10		17		28	76	98	69	90			10	-	04	-01	01	CR	19	60	7	10	=	4	6 10	9	-

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4 01		5 Peritonitis	111	1	1 1 1	1 1	:
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,	-	Phiebitis		1	1 1 1	1	1
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10 20 13	10		7 1 9	9 3 4	1 1 2 1	60 61	100
641 441 378			276 29 29	26 26 29	26 35 37 39	48 39 44	19 15 12
399 968 921	234		147 15 12	11 91	16 17 22 29	27 29 25	8 8
11 11 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 15 18 20 12 11 9 6 16 14 7 7 6 9 2 6 5 4 3 1	1 1 2 2 2 Pistol-shot 1 2 2 2 1 Pistol-shot 1 3 4 3 1 3 2 Pleuvisy 1 3 2 Pleuvo-pneumonia Billous 1 3 2 Pheumonia, Bronchial Pheumonia, Bronchial 1 3 2 Pheumonia, Bronchial 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2	1 1 2 2	1 1 2 2 2 Pistol-shot 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 Pistol-shot 1 1 1 2 1 1 1 1 2 1

. Includes 1 "Typhus."

TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	Months,		1874							I.	TEAR					_			₹	lan.	ž.	Ä	EB 1	90	Ages in Periods of Years,—1874.	Ħ	Ą	ĩ	3		
SEX	January.	February.	April	May.	Jane.	July.	September.	October.	November.	December,	Unknown.	.3781	1873.	1872.	.178I	.078f	'69SI		CAUSES OF DEATH.	Under &	1 5 to 10.	10 to 12	10 00 00	20 to 25.	25 to 30.	.58 of to 85.	.04 of 68	40 to 45.	45 to 50.	20 to 25.	.00 to 65.	.07 of 65 l	70 to 75.	75 to 80.	180 and over,
Females. 21	2	26 40	8	9	- 53	13 15	18	8 19	81	13	- 1	330	275	676	173	157	193	P	Pneumonia	128	98	10	9	9	18	10	18	2	10	7	21	01	21	9	-
Unknown	- 1	-1	- (-1		+	-	1	1	- 1	4	1	1	1	-		•				-	:	-1	1	- 1				- ;	- ;	÷	1	- 1	- (- ;
Total	1	-	01	-	-	00	10	01	60	01	- 1	21	21	23	1	80	16		Polson		9	- 1		н	-	1	61	1	H	-	60	10	- 2	- 4	- 4
Males	:	-	1	-	-	60	C1	10	- 1	-	- 1	=	12	77	10	1	12	_		-	-	- !	_:	-		1	G)	- 1	1	- 1	00	-	- 1	- 1	_;
Females	i	1	D1	- ;	- 1	- 1	- :	1	60	-	- 1	10	9	6	7	13	*	_		-	10	- 1	-	-1	-	-	1	-1	н	-	-	-	4	_ 1	- 1
Females	1	- 1	1	- 1	i	+	-:	-1	_1	-1	- 1	1	1	13	-	-		Po	Polypus	1	- 1	- 1	:	-!	- ;	- 1	- 1	=1	- }	- 1	÷	+	1	- 1	- 1
Total	:	-	-	-	60	-	-	-	-	60	1	15	16	18	22	19	C.		Premature Birth	94	12	- 1	1	.!	- 1	- 1	- ;	1	1	- 1		- 1	1		- 1
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Males	- 1	1	- 3	:	1	- 1	-1	-1	- 1	4	- 7	1	-	-	-	-	- 0.	F	Prostate, Disease of	-	+	- [_;	- !	- 1	1	- 1	1	- 1	- 1	-	1	- 1	-)	:
Males		:	1	-1	1	1	+	1	- [- 1	-1	1	1	7	1	-	•	Z.	Prostate, Enlargement of	+	+	:	- :	-1	1	1	:	1	1	- 1	÷	+	- 1	- 1	_1
Males	1	-1		:	i	+	+	1	1	- 1	-1	1	:	-	1	1		F	Prostration	- 1	+	- 1	1	!	- !	1	:	7	1	1	÷	+	- 1	1	1
Females	3	1	1	1	İ	1	- 1	1	- !	- 1	- 1	1	1	-	1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- !	-	1	:	1	- 1	:	- (-1	1	- ;	÷	+		;	1
Males	- 1	1	1	-1	Ť	+	+	;	- :	. 1	-1	1		1	1	i		Pu	Pulmonary Apoplexy	-	+	-:	- :	- !	-	1	;	- ;	- 1		:	+	1	- ;	;
Males		-	1	-1	1	1	- ;	+	- (-	- (*		1	-	-	-	Pu	Purpurab	-	-	1	-	4	- 1	- 1	.;	1	-	- 1	1	- 64	-	1	1
Females	1	+	-1	. 1	i	+	+	-	1	- 1	- ;	1	1	-	-	-				- 1	+	-	- 1	1	1	1	:	:	ī	- 1	i	÷	-:	- (- ;
Males	i	1	1	- 1	- 1	÷	- 1	;	- 1	- 1	- (1	1	-	1	1		<u>P</u>	Pyemia	-	+ ;	- 1	- 1	1	1	1	- 1	1	1	-1	-	- 1	1	- 1	- 1
Females	- 1	:	-!	- 3	-	+	-	-	-:	1	1	-	1	1	1	i				1	-	- 1	- 1	-		1	.1	-1	1	- 1	1	+	1	- ;	- 1
Total	:	+	9	н	O1	i	-	+	-:	64	:	10	10	00	24	-	63	ð	Quinsy		Çi.	-:	- ;	-:	- 1	1	1		1	1	-	CI.	_	- (-1
Males	i	i	1	-	+	i	+	+	1	94	1	*	80	9	24	-	-			4	-	+	-	1	1	:	1	1	1	-1	1	01	-	1	-1
Females.			-		,	-	-	_	_			•	9	0							-	_										_			

				-	-	1	:	i	-	_			-				The County of th		1	•		-	:	:	;	1	:	:	;	1	:	:
Total	1	60	60	10	60	10	00	*	8	*	2	88	61		50	19 Ra	Railroad Accident.	-	-	65	60	-	9 2	10	01	01	4	80	i	:	-	-
Males	1	60	63	10	01	*	90	*	19	4	5	25	38		19	17		1	1	63	60	-	9 2	10	-	01	4	80	i	1	-	-
Females.	i	- 1	- 1	÷	-	-	-1	÷	1		01		-	-	-	61		1	-	-	-	+	1	-	-	+	- 1	- ;	1	- :	- ;	:
Femalos 1	i	-	- ;	- 1	1	- 1	1	÷	+		1	-1	1	1	- 1	Ba	Rape, Effects of	1	1	;	H	+	- 1	- 1	i	-	- 1	:	i	-:	- 1	.1
Femalos.	1	1	- ;	1	:	- 1	-1	÷	+	1	1	-1	1		-	Ra	Rash	1	1	Ť	÷	+	- 1	1	-	:	- 1	- 1	i	÷	- 1	:
Males	- 1	- 1	- 1	1	1	- 1	i	i	+	1	_	1	1	1	:	Re	Renal Calculus	-	1	1	1	:	- :	1	-	+	-	. :	;	-:	-	:
Total 1	-	-	- 1	-	-	:	1	÷	+	-			90	1		E E	Rheumatism, Chronic	:		i	+	1	-1	1	i	-	-:			-	_:	
Males	:	-	:	-	4	- ;	i	÷	+		_			1	_	1		1	1	1	+	1	- !	i	+	+	- 1		- ;	-		_
Femalos 1		-	-:	1	-		1	÷	- 1	-			61	_				1	1	ì	1	- 1	- 1	i	i	-	:	1	-	+	_;	
Males	-	-!		- ;	-	1	i	-:	-		1	!	1		-!	R	Rheumatism in Head	1	1	1	1	- :	-	1	-	-	-:		1	- :	:	:
Total	01	-	- 1	-	01	- 1	1	- 1	-	G,	9	-	000	-		Eh.	Rheumatism of Heart	1	-	98	=		-	-	- 1	-	-	-	- 1	-	_	- 1
		;	:	-	01	-)	i	÷	-	_	03		00	-	- !			1	1	- †	-	-:	. !	-	1	-		-	1	- :		- 1
	1 1		- 1	-	-		- i	-	-	-	80		10	_	- 1	-		1	1	64	+	- !	-	7	-	- 1	- 1		-	-	- 1	- :
Total	24	9		=	61	03	93	1	-	22	25	80	-	ñ	-	E E	Rheumatism, Inflammatory	1	1	;	10	4	61	i	-	-	7	60	+	-	-	- 1
Males	62	80	- 1	1	09	69	1	7	93	13	35	-	-	90		1		1	1	1	-	60	1	1	1	-	-	-	1		-	:
Females.	- ;	03	- 3	-	1	-	63	1	-	7	15	-	-	1	-	-		_	1	1	-	63	61	1	1	-	1	01	+	01	-	:
Males	;	1	1	1	1	- 1	F	÷	+				pa.	_	- 1	B	Rheumatism, Sciatio	1	-	÷	$\bar{\tau}$	-		- 1	+	+	- 1	Ì	+	-;	;	1
Females.	:	1	1	1	1	- 1	71	1	+	1	1	1	1		- 1	1		1	1	÷	+	- 1	1	1	1	+	1	1	1	- 1	1	1
Females.	i	1	:	:	1	-	÷	÷	-:	_	-	1	1	1	1	Rh	Rheumatism, Spinal	1	1	1	-	- 1	;	1	+	+	1	н	1	+	1	:
Total 1	60	04	-	69	-	C+	-	-1	-	64	85	4	7 30	22	_	49 Rh	Rheumatism	İ	1	1	-	69	-	01	+		64	-	60	01	91	-
Males	60	-	1	1	-	п	1	-	:	6	17	63	-	-	60	=		1	1	i	-	-:	- }	i	+	64	94	1	-	+	64	-
Females. 1	:	-	-	99	1	-	-	-	1	2	11	-	9 16	1	-	8		1	1	1	H	-:	-	61	1	7	1	-	04	01		- 1
Males	1	1	1	+	H	-1	i	+	1	1	0	-	1	- 1	*	Ru	Rupture of Blood Vessel	_	1	÷	1	1	1	1	-	+	- 1	1	1	- !	. ;	. 1
Females.	1	+	1	1	1	1	i	1	1	1	60	1	1	1	_	1		İ	1	÷	1	- ;	- ;	i	+	+	1	:	+	-	:	- 1
		-						-	-				-	-		Sci	Scald Head				- 1	- :	- 1		-	-			-	_	-	:

Includes 1 "Esting Matches;" 1 "by Milk;" 3 "by Morphine;" 1 "by Paris Green;" and 1 "by Strychnine."
 Includes 1 "Souryy;" and 2 "Purpura Hemorrhagica."

TABLE XVII.—Continued.—Specified Causes of Death.

				4	Š	Moxtes,		1874							×	YEARS.			_					•	GE	2 2	4	Ages in Periods of Years, -1874.	COD	0.	-	EAR	8,1	18	4			
SEX.	January.	February,	March,	May.	Jane,	July.	August	September.	October.	Дочетьег.	December,	Unknown,	718I	.878.	1872.	't2st	,078t	1869.	1	CAUSES OF DEATH.	Under 5.	-	01 010	10 to 12	10 to 20.	20 to 25.	25 to 30.	30 to 35.	1 32 to 40	40 to 45.	45 to 50.	, 56 to 56,	.00 to 65.	.07 of 68 l	70 to 75.	1 75 to 80.	39 and over,	Unknown.
Females		1	- 1	-:	-:		-	:	-:	:		1			-	61	_ !	- 1		Scald Head	_		i	:	-	-	-	Ti	- ;	- ;	-;	- 1	- 1	- 1	- 1	- 1	1	- 1
Total	64	*	00	-	_	_	60	-	63	-	01	:	32	36	22		18	1	100	Scald	-	27	1	-	-	1	-	-	-	F	-	÷	-	:	-:	- ;	1	
Males	-	00	01	-	CI.	-	- 1	-	00	10	01	_;	8	23	15		-	-	1	,		19	:	-	i	:	F	1	i	:	-	÷	1	:	-!	- 1	;	- 1
Females.	-	-	H	_:	_;	04	00		- :	01	- 1	-1	10	13		6	Pr	-1	1		1	90	i	:	÷	i	Ť	÷	1	=	i	÷	+	- !	-	- 1	- 1	i
Females.	1	+	- 1	- ;	- 1	3	- ;	;	- 1	:	- 1	- 1	1	1			-	1	on.	Scalp, Disease of	1		i	:	i	i	i	1	÷	i	i	÷	- 1	- :	- :	- ;	- 1	- 4
Total	34.5	52 56	6 71	1 46	30	18	24	क्ष	55	13	23	- 1	440	578	265	5 696		852 22	252 S	Scarlet Fever	64	279 10	106	34	=	60	:	-	-	-	:	-	-	- 1	-	- :	i	**
Males	20 27	60	31 40	24	14	10	2	=	Z	9	12	- 1	234	295	293	324	- 1	133 13	130		-	157	255	16	60	69	1	=	- ;	-	i	-;	+	- ;	- :	+	- 1	- 1
Females.	14 25	5 24	4 31	컦	2 16	90	21	13	17	9	13	- ;	206	283	273	3 371		419 15	122	,	H .	122	21	18	90	-	÷	-:	-	-	:	-	-	:	-:	- 1	· i	0.2
Unknown	1	1	- 1	-	1	- 1	- :	. 4	- ;		_ (1	1	i	- 1		-	- 1	1		1	1	i	i	1	-	÷	i	-		-	+	+	-	- 1	- 1	i	i
Males		-:	:	:	- 1	- 1	:	- 1	- ;	:	- (-		-	4	un:	Scirrhosis	1	+	i	i	1	-	i	+	i	-	i	÷	+	- 1	- 1	- 1	- 1	i
Total	01	-	61	61	_	-	90	64	60	-	4	-)	23	42	9		38	09	13	Scrofula	1	77	-	64	1	=	÷	:	-	:	- 1	-	+	_	1		- 1	- 1
Males	-	-	-	:	:	-	64	64	- 1	- 1	9	ः	11	23	88		16	53	62		1	00	-	98	1	=	÷	÷	7	:	- 1	+	1	- 1	-	1	•	- 1
Females.	-	-	-	1	-	:	-	. 1	10	-	-	:	12	19	12		21	27	23		1	9	=	:	i	1	i	:	=	-	-;	=	+	_	1	_	- 1	i
Males	1	1		1	-:	- 1	- 1	- 1	:	- ;	- 1	:	- 1	- 1	į		-	1	S	Sea Sickness	-		1	i	i	1	i	-	÷	-	-	-	1	- :	- 1	- 1	_i	1
Females.	i	+		:	- 1	- 1	-1	- 1		:	. 1	-:	1	_			-	- 1	-		1	1	i	1	i	÷	÷	+	i	÷	1	+	1	+	- 1	- 1	:	i
Males	1	-1	- !	- !	-:	- 1	- 1	-;	:	1	1.5	-1	1	Ì	-	1	1	- 1	80	Self Abuse	4	- 1	:	÷	i	i	:	÷	+	÷	i	+	+	-:	- :		:	- 1
Males	1	÷	:	_!	:		- 1	- 1	- ;	- 1	;	- 1	1	1	-		-	1	-	"Shot Himself"	-	-1	i	:	i	i	-	-		÷	+	+	1	- 1	:	1	ij	-
Total	1	+	_	-	- 1	- 1	- 1		- 1	-	-	- 1	00	-	1	-		- 1	on:	Skin Disease	A	01	i	i	÷	:	i	:	1	+	Ť	1	-	+	- 1	4	-1	. 1
Males	1		1	1	- 1	-1	- 1	- 1	- 1	1	-	- ;	-	1	1	1	_	-			-	-	i	1	Ť	i	÷	÷	1	÷	i	+	1	+	- 1	-1	- 1	-1
Females.	1		-	-		1	:	_;	- !	-	- 1	:	24	i	1	1	4	-	1		1	-	i	:	i	÷	÷	i	1	Ť	i	:	-	-:	-:	-1	:	
Total		-		0	-								9	8	9	-	_		-		-		,			,	-	•		-	-		-	_	_	_		

Malos 2 . 1 7 1	-	-	1	-	÷	-		+	1		_	п	6	172	48	9	5	:		4	_	-	-	60	oi.	÷	+	1	1	÷	1	1	1	I	Ą
Females.		- 1	G#	01	Ť	-	-1	- 1	-	;	1	-	7	130	123	00	2	:		-	- 1	-1	03	F	1	C9	- 1	-1	-	÷	1	-	- 1	- ;	- 3
Males	- 1	:	:	:	:	- 1	-:		:	÷	+		-	1	1	i	1	Smoth	Smothered in Sand	i	-1	- 1	1	i	:	- 1	1	1	-	÷	- ;	- 1	- 1	- 1	- (
Males	1	- 1		1	1	- 1	1	-1	- 1	:	+	1	1	01	1	1	1	Snake-bite.	bite	i	- }	- :	- ;	1	÷	1	- 1	- 1	1	÷	÷	- 1	1	_[- 1
Females.	- 1	- :		1	-	-	:	1	1	1	+	1	1	-	1	1	1	=		1	- 1	-	- 1	i	i	1	- 1		- 1	1	- 1	- 1	:	_;	
Males		-1		:	-	-	1	_1	- 1	i	+	1	1	-	i	i	1	Soften	Softening of Stomach	1	- !	1	- 1	÷	-	1	- 1	- 1	-	i	- 1	:	-1	_;	1
Females	+	- 5		1	1	- 1	1	1	1	÷	+	;	i	1	-	i	1	Sore N	Sore Neck	-	1	-1	1	1	÷	1	- 1			÷	- 1	- 1	- 1	. :	4
Males	-	_ :		1	1	1	- 1	-4	-	1	÷	1	1	-	i	i	1	Spasm	Spasm of Glottis	1	1	- 1	-)	i	÷	1	- 1	- 1	-	÷	- 1	- :	:	- ;	:
Females	- 1	1	- 1	- 1	1		-	- 1	1	1	1	-	1	-	1	1	1	:		7	1	1	- 1	i	÷	+	-	- 1	- 1	÷	+		-:	- †	- 1
Males	1	- 1		- 1	-		-1	:	- 1	-	- 1	1	i	i	1	-	1	Sperm	Spermatorrhea	-	1	- 1	- 1	•	÷	:	1		1	i	- 1	-1	:	-4	
Males	1	- 1		- 1	÷	4	- 1	-:	1	00	1	01	-	1	1	-	1	Spina	Spina Bifida	-	i	- 1	- 1	i	÷	1	-:	- 1	1	÷	1	-	- 1	- 1	7
Females	+	-:	:	;	1	+	1	- 1	- ;	i	+	1	1	1	1	-	01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	-1	:	i	5	1	- 1	1	- 1	1	+	:	:	1	:
Males	1	-:	- ;	- :	Ť	+	- 1	- !	- 1	-	1	1	-	i	1	1	1	Spine,	Spine, Concussion of	1	-	-	- 1	i	÷	÷	- :		1	÷	+		- 1	- 1	1
Total 9 8 12 10 11	1	80	12	10	=	90	9 16	10	03	=	=	H	170	8	25	23	88	Spine	Spine Disease	3	92	7	1	20	-	-	4	-	-	04	10	01	01	:	1
Males	- 1	60	00	00	7	60	62	4	01	10	1	21	8	88	16	12	81	=		10	6	4	60	01	01	OI.	-	- :	-	04	-	-	7	- 1	. ;
Females		5	4	-1	-	10	20	10	7	9	P	8	18	3	15	58	17		***************************************	133		00	*	9	09	69	60	-	1	-	80	01	-	- }	:
Total	1	1	-1	:	-	Q4		1	- 1	- 1	-	99	Q4	01	01	10	1	Spine,	Spine, Inflammation of		01	:	1	1	=	- 1	- 1	- ;	:	÷	-	- !	;	:	1
Males	+	1	- 1	- 1	-	-	1		- 1	ì	1	04	64	01	-	63	1	,		i	C1	1	:	:	÷	1	-:	- ;	1	÷	+	- 1	- 1	- ;	1
Females	1	- 1	1	1	1	-	1	- 1	- 1	- 1	:	-	1	;	-	01	1	*			1	- 1	-1	7	-	1	- 1	- 1	1	÷	1	- 1		1	:
Females. 1	7	-:	I	- 1	-	+	+	- 1	.)	1	:	-	-	i	i	i	1	Spine,	Spine, Injury of	1	1	-	- 1	1	÷	:	1	. :	1	÷	1	-	_;	1	:
Females	1	1	. :	:	Ť	1	+	1	ī	1	+	1	1	i	1	-	Ī	Spinal	Spinal Cord, Inflammation of	1	1	1	1	1	1	+	:	:	:	÷	+	1	- 1	1	:
Males	+	- 1	;	:	i	-	-	1	1	i	-1	-	i	i	1	1	T	Spine,	Spine, Paralysis of	1	i	1	٦	i	1	1	1	- 1	-1	+	+	-	- 1	- 1	
Males	:	-1	1	1	÷	-	1	1	- 4	i	- 1	1	1	4	i	i	Ī	Spirito	Spiritualism	-	i	- 1	:	:	;	:	1	:	- 1	+	-	-		1	
Males	i	- 1	-1	- ;	i	-	1	- 1	-1	i	1	1	1	-	1	69	1	Spleen	Spleen, Disease of	1	1	- !	- ;	-1	÷	1	1	- 1		i	+	-	- 1	- 1	
Females	1	÷	1	:	1	- ;	1	-	- 1	1	1	1	1	64	i	1	1	=	n n	1	1	1	1	- 1	Ť	1	1	:	-)	1	1	-	- 1	. 1	
Males	i	÷	1	1	T	- 1	+	1	1	-	1	-	н	69	T	F	1	Spleen	Spleen, Enlargement of	1	1	-	1	1	i	+	1	-	T	Ť	1	1	;	:	-1
a Includes 9 "Scarlet Re	9	15	3		l W	वं	1.	1	1	1		1				14	ich Eg	400 1	b Includes 1 "Eczems," and 1 "Salt Rheum."	r H		1	1	1	1	1	1		1	1	1	1	1	1	1

. Includes 9 "Scarlet Rash."

TABLE XVII.—Continued.—Specified Causes of Death.

				Mo	MONTES,		1874.								YEARS.	.8				-			A	AGES IN	N	PE	PERIODS OF	80		YEA	YEARS, -1874	7	74			
SEX.	January.	February.	Jingh	May.	Jame.	Joly.	Angust,	September.	November.	December,	Unknown.	'F18I	.878.	1	7815	TEST	.0781	'698I	CAUSES OF DEATH.	1 3 -abatt	Under 5.	OI of 61	15 to 20.	20 to 20.	.06 of 52	.68 ot 08	.04 of 68	40 to 45.	45 to 50.	. 50 to 55.	.09 of 66	29 01 09	.07 of 05	70 to 75.	.19 TO Date Of	uwonanu]
Females.	1	- :		_ ;	1		-:	- 1	-	-	- !	- 1		-	i	-	64		Spleen, Enlargement of	- 1	i	- ;	-	:	- 1	- 1	- 1	- 4	- ;	-:	- 1	- ;	i		- 1	:
Females	1	1	1	:	- (4	1	-	+	- 1	- 1		-	+	1	1	1	- 1	Spleen, Inflammation of	÷	;	+	+	- 1		:	_1	1	:	- 1	1	:	+	+	-:	_
Males	1	;	- 1	1	- 1	1	÷	1	+	÷	-	1		-	i	i	1	- 1	Sprain of Side by Lifting	+	:	+	+		- 1	4	:	-1	-1	1	- 1	i	÷	+	- :	-:
Females	7	:	1	-ï	- ;	-1	-	-	+	-1	-:		01	i	i	1	i	1	Starvation	4	1	÷	+	:		-	- 1	- 1	_1			1	÷	- ;	-!	÷
Males	1	+	- 1	- ;	-:	1	÷	+	+			1	+	1	O1	i	i	1	Steam-boiler Explosion	+	i	+	+	+	- 1	- 1	- ;		- :	- 1	:	i	÷	-	- 1	
Total	123	30 31	88	94	65	49	3	17	40 35	53	7	1984		274	204	268	236	129	Still-bornb	4:	164	+	÷	:	-:	:	:	- 1	- 1	:	1	-	÷	1	-:	-
Males	13 13 15 16	22	16	77	83	22	25	20 21	113	88	;	257		153	00	161	125	3		:	257	÷	1	:		-:	- 1	- 1	1	- 1	:	i	÷	+	-	-
Females., 12 13	12	3 13	13 12	28	10 13		18	19 1	15 1	13	-	181	-	112	81	96	8	8		-	181	+	+	1	-:	- :	- ;	- 1		1	:	-	-	+	- 1	
Unknown		4		64	- ;	*	-	04	*	00			38	6	77	=	13	35			98	+	+	-;	-:	_!	- ;	:	-:	- 1	!		i	- :	-:	
Males	1	- 1	- 1	:	;	1	-	÷	+	-	:	1	1	1	-	ì	i	-1	Stomach, Chronic Ulceration of	+	1	+	+	+	-	-1	- 1	- 1	- ;	- 1	1	-	:	-	-!	-
Total	69	54	7	04	0.3	C4	-	69	H	60	_		61	11	20	77	16	=	Stomach Disease		10	-	-	-	12	:	-	-	-	1	7	1	-	-	-	-
Males	-	:	-	1	-	01	1	-	1	-	:		01	14	6	6	00	4	, ,	:	00	1	+	_	-	_	- 1	-	-	- (-	- ;	H			-
Females	-		1	-	-	-	-	-	=	61	-		6	4	*	9	00	7		- 3	01	-	-=	:	-	-	-	- (:	:	- 1	÷	-:	-		-
Total		01	*	-	:	01	:	62	9	63	-	64	78	36	8	75	8	12	Stomach, Inflammation ofd	7	*	÷	1	-	68		64	64	-	04	7	H	10	60	-	-
Males	+	-	7	.1	1	1	1	80	-	+	-:		7	15	=	6	=	10		+	1	+	+	1	- 1	_!	-	1	-	-	:	-	04	-	+	
Females.	04	-	60	-	:	04	+	1	10	04		_	5	=	18	2	21	10		- 1	4	÷	1	-	69	- 1	-	CI	:	-	1	-	60	63	-	
Total	1	-	1	-	-	- 1	-	-	-	-	_:		10	90	4	69	69	-	Stomach, Ulceration of	- 1	+	_	+	- 1	1		- ;	-	-	- :	-	64	i	- ;	-:	- ;
Males	:	-	- 1	-	-	- 1	- 1	•	1	-			69	9	-	-	01	-		+	1	+	÷	-	-:	- 1	_;	-	1	- 1	-	-	-	+	-	-
Females	1	1	1	-	1	-	-	-	+	+			69	01	60	-	-	-		1	;	+	÷	+	1	1	-1	. 1	-	- ;	:	04	÷	+	- :	
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Males		1	ı	1	Stricture of the Gsophagus	1	1	1	i	:		1	- 1	+	1	i	1	
Males	1	1	-	1	Stricture of the Urethra	1	1	-	i	+		1	1	+	- ;	÷	1	
Males	-	1	1	-	Stricture	1		1	i	:	-1	:	- 1	÷	:	+	:	;
Males	-	1	1	1	"Struck in the Abdomen"	1	:	- ;	÷	+	1	1		+	:	÷	1	4
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Females	-	94	1	1		1	1	-1	÷	1	1	:	-1	1	1	÷	1	16
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Males 4 2 4 2 2 2 4 4 31 30	91	30	83	16		1	+	-	*	-	*	51	ю	93	01	-	-	-
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Total		•	7	04	Sun-stroke	**	+	01	н	09	63	1	1	+	-	-	-	-
Males 1 1 10 5 2 19 2	01	9	7	Ca		64	-	64	-	60	29	-	1	+	H	-	-	-
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Females	-	1	1	1		1	÷	4	i	1	1	1	1	:		1		1
Females	-	1	-	1	Swallowed a Pin.	1	1	- 1	1	:	:	1	1	1	1	÷		:
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						1	1		1		1	-	1		1	٠	1	ı

. Includes 1 "Befusal of Food." b See remarks on Still-births, pages Boand 141. Includes 1 "Consumption of." Includes 1 "Acute," and 3 "Chronic." Includes 1 "Ashyxis," and 1 "Smothered." 18ce Exhibit 9, pages 206-257. sincludes 1 "Pox."

TABLE XVII.—Continued.—Specified Causes of Death.

				¥	Monra	€	1874	J						YEAR	į								Ą	Ä	Agrs in Periods of Tears,—1874.	T	9	8	6	N.	ğ	7	874			
SEX.	Lanuary.	March.	April.	May.	June.	July.	August	September, October,	November	December.	Unknown	7281	.878I	1872	7281	,9781	.e98I	CAU	CAUSES OF DEATH.	Under 5.	.01 of 3	10 to 12.	15 to 20.	30 to 52.	.06 of 52	.38 of 08	92 to €0.	40 to 45.	45 to 50.	. 50 to 55.	.09 of 66 l	, 60 to 65.	1 65 to 70.	70 to 105	1 75 to 80.	80 and over,
Total	60	100		7			23	18	10	60	:	8	106	103	83	85	88	Teething		88	90	. :	- 1	- 1	- 1	;	- (- 1	1		- 1	:	:	1	1	1
Males	-	61	1	9	00	7	9	t-	9	60	;	7	9	52	42	45	40	:		9	1	- ;	-1	- 1	:	- ;	- 1	-	- 1	:	- 1	1	i	1	1	;
Females	01	+	_ !	7	-	-	-	=	*	55	1	48	46	51	40	40	\$:		48	+	_:	1	- 1	- 1	i	:	1	- 1	- 1	- ;	1	i	÷	÷	-
Females	1	+	- 1	- ;	- ;	-	÷	+	-1	1	- 1	1	1	1	-	- 1	1	Terror during Fire	ing Fire	j	-	- :	- ;	1	- 1	- 1	- 1	1	- ;	- ;	- 1	1	1	1		- 1
Males	;	+	- 1	- 1	1	- 1	÷	-	- 1	- 1	- (1	i	1	-	1	- 1	Testicles, 1	Testicles, Enlargement of	_1	1	- 1	- 1	1	- 1	- 1	\neg	- 1	- 1	1	:	-	- 1	÷	i	- 1
Total	1	1	-	:	-:	-	-	:	-	-	1	10	60	60	н	1	1	Tetanus (Lock-jaw)	ock-jaw)	!	1	-	1	-	H	-		- 1	:	-	;	:	1	-	1	1
Males	-	+	1	:	:	-	-	T	-	1	;	4	01	69	-	1	1	,		1	1	-	:	-	-	- ;	:	- ;	1	7	1	:	1	÷	-	:
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Females	+	+	-	:	-1	i	÷	-	+	- !	- 1	1	60	- 1	1	1	01	:		-	1	-1	1	- 1	- 1	1	- 1	- 1	- 1	- 1	•	- 1	- 1	÷	ì	-1
Total		4	- !	- 1	64	60	-	*	-	*	1	18	8	18	25	19	23	Throat Disease	easo		90	-	1	1	1	-	1	-1	1	-	64	-	1	-	:	-
Males	-:	-	-!	:	1	H	1	64	-	01	1	11	15	92	6	10	12	:			50	-	1	1	1	-	1	- ;	- 1	-	-	-	1	1	- 1	-
Females		:	_ :	- 1	-	01	- :	01	+	01	1	7	15	00	12	6	77				2	- 1	1		- 1	- 1		- 1	:	:	н	- 1	1	7	- 1	
Females		- 1	- ;	- 1	1	1	-	+	1	-!	- 1		-		-	1	-	Throat Dis	Throat Disease, Chronic	1	1	- 1	- 1	- 1	- ;			:	- ;	- 1	-)	- 1	-:	-	-1	1
Males	- ;	1	1	:	1	i	÷	1	:		.1	1	1	-	-1	1	1		Throat, Inflammation of	- 1	- 1	- 1	1	- 1	1	- 1	-1	-:	:	- ;	- (1	1	1	- 1	1
Males	i	+	- 1	- 1	-:	i	÷	-	+	-	1	-	1	1	1	1	-	Throat, Paralysis of	ralysis of	1	-	- 1	•	- 1	1	- 1	1	- }	:	-	:	- 1	- 1	Ť	- 1	
Total	i	;	1	- 1	:	63	1	-	+	- 1	1	90	04	*	1	i	1	Throat, Putrid Sore	strid Sore		1	-	1	1	- 1	- ;	- 1		:	1	1	1	-	Ť	- ;	-
Males	- 1	:		1	1	=	÷	÷	1	-1	1	-		00	i	1	1				-	-:	1	1	1	- 1	- }	:	- 1	1	:	:	- 1	1	1	1
Females	÷	+	1	:	1	-	1	÷	+	-	1	6.5	-	-	1	i	-		" "		-	-	1	:	-	:	- 1		- 1	•	-1	:	1	1	1	+
Males	- :	1	1		1	i	Ť	÷	+		1	1	1	-	1	1	-	Throat, Ul	Ulceration of	1	-	- 1	1	- ;	1	-	1	:	:		1	1	1	Ť	:	-
Females.		-	-					-	-	_											_													_		

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1 9 Trichinissis 1 1 1 1 1 1 1 1 1	1 1		-		1	1		_	İ	- :
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1 Tubercles of Liver and Kidneys. 1 Tubercles of Liver and Kidneys. 1 Tumor, Abdominal	1	. Trichiniasia				- 1			1	
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Tumor on Back Tumor on Back Tumor on Back Tumor on Back Tumor on Back Tumor on Back Tumor on Back Tumor on Back Tumor Encephaloid Tumor Fibrous	1 1 1	. Tubercles of Liver and Kidneys			-	- :		1	_	_
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Tumor on Back	64					1			1	_
1	64 64	. Tumor on Back			1	- ;	_		1	_
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1 1 2		Tumor in Bowels	-		1				-1	- 1
Tumor on Brain Tumor on Brain Tumor on Brain Tumor on Bead		, , , , , , , , , , , , , , , , , , , ,	-		1	- 1	_	_	Ť	-
Tumor on Brain Tumor, Fibrous Tumor of Head									1	
1 2 1		Tumor on Brain	+	-					1	
Tumor, Fibrous Tumor on Head					1	_	-	_	1	_
Tumor, Floresphaloid	1 2 1 1		1	-	-1	1		_	1	-
Tumor, Fibrous.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tumor, Encephaloid			1	1		_	1	_
Tumor on Head		Tumor, Fibrous				1			1	
" " " " " " " " " " " " " " " " " " "	01	Tumor on Head				1			1	
	1 1 1					1	1		1	+

· Includes 1 "Inflammation of Windpipe from Swallowing a Bean."

TABLE XVII.—Continued.—Specified Causes of Death.

					Mon	MONTHS,	1874	4							YEARS.	18.						4	AGES IN PERIODS OF	IN P	ERI	900	20	Z P	YEARS,-1874	1874		
SEX.	January.	February.	April.	May.	Jane.	July.	August	September.	October.	Дочешьет.	December.	Unknown.	7/81	1823"	1872.	1811	702ST	.eset	CAUSES OF DEATH.	Under &	10 to 10.	12 to 20,	20 to 25.	25 to 30.	.04 of 56	40 to 45.	1 45 to 55.	.09 of 75	.60 to 65.	1 05 to 75.	75 to 80.	1 S0 and over.
Males	1	-:			- 1)	i	1	- 1	- 1	- 1	i		-	1	1	1		Tumor on Lungs	- 1	+	-:	:	- ;	- 1	. :	\div	- 1	ì	- 1	- 1	- !
Males	+	-	1	1	-	:	i	-	-	-	-	1	20	00	1	01	1		Tumor in Stomach	1	÷	- ;	1	- 1	- 1	1	-	- 1	- 1	01	- 1	
Females.	1	1	:	1	1	- !	i	i	- 1	- 1	-	- 1	-	63	62	-		1		i	-	- !	÷	-	1	+	+	:	i	÷	- 1	. 1
Total	-	1	- 1	- 1	1	1	1	-	-	-1	1	1	60	01	gt.	-	1	- 1	Tumor on Throat	i	+	- ;	-	+	- 1	=	+	1	÷	+	-1	. 1
Males	-	:	1	1	1	- 1	- 1	j	_	1	1	;	64	-	-	-	-	1		i	-	-!	-	+	1	-	÷	- 1	i	-	- :	:
Females.	1	-	4	1	1	1	1	-		1	1	- 1	-	-	-	1	1	-		i	+	1	-	+	-	+	÷	1	F		- 1	:
Females.	1	- 1	1	- 1	- 1	- }	1	1	_	:	-	- 1	04	00	*	04	-	1	Tumor, Uterine	i	+	1	+	-	-1	i	÷	-	i	÷	- 1	:
Total	1		60	60	-	64	-	60	- 83	C1	1	:	19	5	27	19	14	17	Tumor (Unspecified)	69	-	7	-	-	-	+	÷	60	-	61	0.3	-
Males	:	1	1	-	- 1	-	-	-	-	-	1		9	00	60	00	9	*		61	+	1	÷	- :	- 1	-	÷	- :	i	÷	04	-
Females	-	:	1 8	61	-	-	1	61	04	-	- 1	1	13	13	0	=	90	133		i	÷	-	-	-	-		-:	60	-	69	1	:
Females	1	1	1	i	1	1	04	1	-	-	1	:	*	*	-	63	00	-	Turn of Life	i	+	-	1	;	:	-	64	;	i	÷	1	:
Males	1	1	i	1	- 1	1	1	- 1	1	1	1	i	:	-	-	1	1	1	Ulcer on Neck	i	-	-1	+	-!	i	+	+	- 1	i	+	- ;	- 1
Males		1	1	1	1	1	- 1	1	1	1	1	;	1	÷	1	C4	60	-	Ulcers (Unspecified)	i	- 1	1	+	- 1	i	+	1	:	÷	÷	:	1
Females.	1	4	-	1	1	1	1	1	- 1	:	1	:	01	H	1	1	62	10		i	÷	1	1		i	+	;	;	+	+	:	-
Total 100 78 29 110 129	100	78 20	110	139	117	110	170	193	121	93	124	19	1463 1	208	1367 1	1000	306	1984	Unknownb	970	45 17	13	19 31	1 25	30	17 90	0 24	19	88	25	83	=
Males	61	38 55	89	15	2	61	38	93	6	52	67	=	197	181	731	629	643	655		555	28	10	51	00	22	-	9 15	=	161	13 21	6	00
Females.	8	40 44	7	98	23	47	72	8	52	7	57	60	663	202	627	53	248	290	*	416 1	17 10	6	14 19	11	8	10 11	9	90	12	9 13	13	20
Unknown	1	:	1	1	1	04	- !	-	1	1	;	;	00	10	0	18	15	19		64	- ;	:	:	4	i	+	1	:	÷	÷	:	:
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Males	1	1	1	-	1	1	1	-	1	:	1	1	64	01	-	1	-	1	Urinary Disease	1	-	1	+	-	i	÷	1	1	1	91	:	. <u>i</u>
Females	1	-	-1	1	1	1	1	- 1	:	:	-	:	-	1	1	i	1	1	Uterus, Conjestion of	:	÷	- ;	1	:	-	÷	- ;	1	+	-:	:	-:
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Includes 1 "Consumption of

Penales Pena	Females. 2	:		=	i	1	=	1	Ŧ	1	I	9	2	6	9	0	4	Uterus, Inflammation of	÷	1		1	Ţ	=	=	1	İ	1-1-1	-	Ì	÷	ļ
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1 1 1 1 1 1 1 1 1 1	Females	1		1	i		1	1			1	1	61	64	1	69		erus, Ulceration of		- 1	- 1					_	:			:	_	
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13 22 20 12 9 10 1 4 2 1 1 2 4 White Swelling. 6 10 10 2 4 3 6 10 133 206 132 68 119 168 Whooping-cough. 7 12 10 9 6 6 8 10 138 20 13 8 14 Whooping-cough. 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Females.	1	1		_	_	÷	1		_	_	i	1	1		-	_	in on Neck	+	1	_	_	<u> </u>					_	_	-1	_	÷
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13 22 30 12 9 10 113 208 192 68 119 138 Whooping-cough 146 6 1	Females		1	i	1	1	1	1	1	1	- 1	-	;	1	1	61	-		-		_		-	_			:					-
6 10 10 3 4 5 6 6 10 30 30 6 4 80 63 2 1 1 1 1 2 10 9 5 6 8 101 89 36 64 80 82 4 1 1 1 2 2 3 3 5 5 10 Worms 4 2 1 1 1 2 3 3 5 6 7 8 1 1 1 2 3 3 5 6 7 8 1 1 1 2 3 3 5 6 7 8 1 1 2 3 3 5 7 8 1 1 3 4 5 1 1 5 5 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		4	11	00	7				_	10	:	153	906	199	8	5.5		nooping-cough	146		_	_	-		_	_		_	_	_	_	- }
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1 1 7 2 8 9 5 10 Worms 4 2 1 1 1 1 1 1 1 1 1	Unknown	1	1	1	1	+	+	1	1	-	:	-	1	-	1	- 1	- 1		-	1	i	+	-1		_	_		_	_	_	_	<u>:</u>
1 1	Total	!	69	1	-	-	+	1	- 1	-	:		Q4	00	6	10	10 W	rms	-	01	1	+	- 1	-	_	_	_		_	_		+
1 1 1 6 2 6 2 6 1 1	Males	1	-	i	1	+	_			1	1	01	-	00	03	99	10		-	1	_		_	-	_				_			+
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Wound in Leg. Wound on Shoulder Wound in War of 1812 Wounds Wound in War of 1812 Wounds	Males	1	1	1	;	1	1			1	1	İ	-	H	1	1	1	and of Foot	-	_	_	_	_	_	_		_		_	_		- 1
Wound in U. 8. Service	Males	1	- 1	t	_				_		1	i	1	-	-	+	_						_		_	1		_			_	<u>:</u>
Wound in War of 1812	Males	T	1	i	÷	_	_	_	_	_	1	1	i	-	1			und on Shoulder		- 1	_		:			1	_	_		_		÷
1 1 2 5 3 1 Wounds War .	Males	1	1		_						1	Ť	1	-	-	1	=	and in U. S. Service		1			:			;				_		4
1 1 2 5 3 1 Wound in War of 1812 1	Males	1	1	i	+							1	1	1	-	+	=	und in War		. :			1			- 1			- 1	_		1
1 1 2 8 8 1 1 Wounds	Males	1	1	Ť	÷							_	÷	+	:	-	1 1	und in War of 1812		. 5	-:		;			1	:		;	1		:
	Males	1	1	-		-	1		-	1	1	QE	10		1	-	-	nuds	1	1				i	÷	-:	1	_	:	i		-

Includes 1 "Under Arm"; 1 "Fatty"; 1 "On Foot"; 1 "Internal"; 1 "On Liver"; 1 "In Side"; and 1 "Of Spine".
 Blood "; 1 "Eruption "; 1 "Vomiting "; and 1 "Hiccough ".

Exhibit R is published for the purpose of showing the specific sources of danger to people, from accidents. There were 182 deaths returned as having been caused in 1874 by various casualties, very many of which might probably have been avoided by the exercise of that caution which should be caused by a knowledge of the danger. This exhibit is published in the hope that, having learned the special sources of danger, people may guard against them, and thus decrease the number of deaths from "Casualty."

Of the deaths compiled as Casualty in 1874, 24 were returned as having been caused by shooting. Though not definitely stated in all cases, it thus appears probable that the careless use of fire-arms in one year caused the death of 24 persons.

A careful examination of this exhibit is recommended to all readers in order to warn them of the nature of the dangers of death from what are called "accidental" causes, but which are in many cases preventable by means of intelligent caution.

EXHIBIT R.—Deaths in Michigan in 1874, Compiled as Casualty.

CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths.	CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths
Fotal number tabulated as Casualty in Table XVII.	182	Accidentally Killed	13
Accident	24	Accident in Shingle-mill	1
Blast in Mine	2	Injured by a Fall	5
Shock from caving of Rock	1	Fall from a Wagon	4
Crushed in Mine by falling of Rock	1	Killed with Field Roller	1
Accidentally Crushed in Mine	8	Accident,—Shot Himself	6
Accident in Sand Bank	1	Kick of a Horse	
Accident in Mine	5	Killed in Grain Bin	1
Fall in Mine	1	Horse ran away, fracturing Skull	1
Accidentally Shot	24	Fell in front of Reaper while cutting Wheat	,
Sore on Limb caused by Sprain	1	Killed by Log rolling on Him	1
Accident,—Jammed by a Log	1	Falling from Barn	1
Killed in Woods	8	Killed between two Logs	1
Accidentally Killed while felling Timber	1	By Falling Lumber	9
Killed,—Falling Earth	1	Killed by falling of a Gate	1
Fell out of child's hands on the Stove	1	From being hurt in Saw-mill	1
Killed by Explosion of Boiler	1	Crushed to Death	,
Horse ran away	1	Thrown from a Horse	8
Injury in Bowels from fall	1	Killed	5
Falling off a Tree	2	Killed in Grist-mlll	1
Thrown from a Wagon	18	Killed by a Tree	1
Accident in Car Shop	1	Fall from Building, Accidental	9
Killed in Saw-mill	9	Accident,—Broke Neck	٠,

EXHIBIT R.—Continued.—Deaths from Casualty, 1874.

Bun over by a Wagon			No. of Deaths
Killed by Falling	1	Killed by Street Cars Killed,—falling from Horse. Dislocation of Neck by Falling	3 1 1 1 1 1 1 1 1 1 1 1

Exhibit 9 contains data concerning suicides in Michigan in 1874. There were 53 deaths returned from suicide,—31 males and 22 females. Of the different occupations, the largest number is shown for those who were reported to be farmers; of the different nativities, the largest number were born in Michigan; and of the means used, the largest number of those specified was hanging. Poison and hanging seem to be the means most generally used by suicides.

The number of suicidal deaths returned for 1874 is greater than for any previous year, the order of the years, those having the greatest number first, being: 1874, 53 deaths from suicide; 1871, 40; 1873, 39; 1872, 35; 1870, 34; 1869. 23. The greatest proportion of males is shown for 1873, the smallest for 1874.

EXHIBIT 9.—Certain Facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1874.

Монтн.	Day.	Age.	Condition.	Sex.	Color.	Occupation.	Nativity.	Means Used.
January	2	59	Married.	Male	White	Parmer	Ireland	Hanging.
January	6	50	Married.	Male	White	Land Agent		
January	10	23				House-keeper		
January	12	85	1	Male	:	Farmer	1	1
January	18	58	Widow	Female	1	Laborer		
January	90	36	Single	Female		Servant		
January	96	50	Married.	Male		Farmer		
February	16	36	Married.	Male		Peddler		
February	20	Unk.	Unk	Male		Unknown		
February	23	20	Single	Female		Prostitute		
March	10	20	Married.	Female	1	Printer	1	
March	17	53	Married.	Male	1	Farmer		
March	19	25	Unk	Female		Unknown		
March	28	16	Single	Female		House-worker		
April	22	55	Married.	Female		House-keeper		
May	5	21	Single	Male		Laborer		
May	13	21	Single	Male		Farmer		
May	14	45	Married.	Male	White	Tinner		
May	30	24	Single	Male	White	Laborer		
June	9	67	Married.	Male		Farmer		
June	5	23	Married.	Female		Unknown		
June	25	23	Married.	Male		Builder		
June	27	18	Single	Female		Unknown		
June	27	22	Single	Female.		Domestic	1	
July	1	25	Married.	Male	1	Farmer	1	
July	14	19	Unk	Female		Servant		
July	14	27	Single	Male		Mason		
July	15	44	Married.	Male		Laborer		
July	15	57	Married.	Male		Drayman		
August	1	60	Married.	Female		Farmer's Wife		
August	12	Unk.	Single	Female		Domestic		
August	29	50	Married.	Male		Farmer		
August	31	77	Widower	Male		Unknown		
September	7	55	Married.	Male		Painter		
September	10	38	Single	Male		Wood Chopper		
September	26	Unk.	Unk	Female		Unknown		
October	1	48	Married.			Farmer		t .
October	8	26	1			House-keeper		
			1				- ICHISAN	Prowning.

" Insanity."

EXHIBIT 9.—Continued.—Suicidal Deaths, 1874.

Month.	Day.	Age.	Con	dition.	Sex.	Color.	Occup	ation.		Nativity.	Means Use	sd.
October	6	22	Sin	gle	Female	White	Unempl	oyed.		Michigan	Hanging.	
October	23	29	Ma	rried.	Female	White	Unempl	oyed.		England	Poison.	
October	31	48	Ma	rried.	Male	White	Cabinet	-mak	r	Belgium	Not known	l .
November	1	82	Wk	lower	Male	White	Gentlen	aan		Ireland	Not given.	
November	15	84	Ma	rried.	Female	White	House-k	ceepe	r	New Jersey.	Drowning.	,
November	15	19	8in	gle	Male	White	Laberer			Canada	Not given.	
November	18	23	Sin	gle	Male	White	Farmer.			Pennsylvania.	Hanging.	•
November	25	40	Ma	rried.	Male	White	Laborer	·		Unknown	Hanging.	
November	27	16	Sin	gle	Female	White	Unempl	oyed.		Michigan	Not given.	
December.	1	21	Ma	rried.	Female	White	House-l	eepe:	r	Michigan	Not given.	
December.	2	47	Ma	rried.	Male	White	Tanner.			Germany	Hanging.	
December.	2	69	Wk	lower	Male	White	Farmer.			Vermont	Not given.	
December.	9	48	Ma	rried-	Male	White	Parmer.			New York	Not given.	
December.	10	52	Sin	gle	Male	White	Laborer	·		New York	Laudanum	Ŀ.
December.	15	22	Ma	rri e d.	Female	White	House-k	eepe	r	Michigan	Poison.	
occt	PATIC	NS.		No.	00	CUPATION	B	No.		OCCUPATI	ONS.	No.
Builder	••••••			. 1	House-w	rorker		1	Se	rvants		. 2
Cabinet-ma	ker			. 1 j	Laborer	s		7	T	nner		. 1
Domestics .		•••••	•••••	- 2	Land A	gent		1	Ti	nner		1
Drayman	•••••			. 1	Mason			1	U	nemployed	•	. 3
Farmers	••••••			. 12	Painter.			1	U	nknown		6
Farmer's W				. 1	Peddler			1	W	ood-chopper.		1_1
Gentleman				. 1	Printer.		•••••	1	Ì	Total		. 53
House-keep	ers			- 6	Prostitu	te		1				Ì
AK	TIVIT	Y.		No.		NATIVITY.		Na		NATIVIT	ry.	No.
Belgium				. 1	Massach	usetts		1	P	russia		. 1
Canada				. 1	Michiga	n		13	Sc	otland		.j 1
England		•••••		. 4	New Jer	**************************************		1	יט	nknown		. 6
Germany	•••••			. 6	New Yo	rk		9	V	ermont		. 1
Ireland				. 8	Ohio	•••••••		1	w	isconsin		. 1
Italy				. 1	Pennsyl	vania		2	1	Total		. 58
		Π.	Numi	ERR.			Num	BER.	İΤ		Num	<u></u>
MEANS 1	USED.	_ K	les.	Ye- males.	MEAN	S USED.	Males.	Fe- males.	_	MEANS USED	Malaa I	Fo- males.
Cutting The		1	1	1			1 1	8		ot given		8
Drowning Gun-shot				4		ım	1 1	 2	P	oison Total	I——I-	22
~ da-suve		···	١		mor bate	·····	-		<u> </u>	10001		

Table XVIII. shows the number and proportion of deaths returned as having occurred from each of fifteen principal causes of death in Michigan in 1874. The proportion of deaths from Consumption was nearly twice as large as from any other cause in 1874, and in 1873 and 1872 the relative proportion was still greater. More than half of the deaths returned as having occurred in 1874 were charged to fifteen causes, as is the case with each of the years 1870–1872; but in 1873 the proportion was a little less than half. The per cent. of deaths from fifteen principal causes to deaths from all causes, for each of the years 1870–1874, is as follows: 1870, 56.85; 1871, 52.64; 1872, 50.63; 1873, 48.67; 1874, 52.23 per cent. Twelve of the fifteen causes specified in table XVIII. are in the corresponding table for 1873, and thirteen of those in the table for 1873 would appear in 1874 were it not that in 1874 one was crowded out by the still-births being included in the list, whereas in previous years they were left out.

The still-born decedents are included in this table, grouped as in that condition, not as deaths due to a single cause any more than are those reported as having occurred from old age. If the number of still-born children in this State in each year ranks so high among the principal causes of death (being fourth in rank in 1874), an exhibition of that fact may lead to special study of the causes of that condition, which may result in some definite and useful knowledge on the subject. Table XVIII. may be compared with Exhibit 8, page 178.

TABLE XVIII.—Order of Succession of Fifteen Principal Conditions and Causes of Death, exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from All Causes, for the year ending Dec. 31, 1874.

d	SPECIFIED CAUSES AND	Num	BER OF DE	ATHS.		. FROM EAC FROM ALL	
ORDER.	CONDITIONS, 1874.	Total.	Males.	Females.	Total.	Males.	Fe- males.
1	Consumption	1,392	656	736	11.14	9.84	12.66
2	Pneumonia	A 800	469	330	6.40	7.04	5,69
3	Typhoid Fever	610	317	293	4.88	4.76	5.05
4	Still-born	b 464	257	181	8.71	3,96	8.12
5	Scarlet Fever	440	234	206	8.52	8.51	8.55
6	Old Age	428	195	233	3,42	2.93	4.01
7	Diarrheae	390	218	162	3.04	3.27	2,79
8	Heart Disease	320	175	145	2.56	2,63	2.50
9	Dysentery	304	161	143	2.43	2,43	2,46
10	Cholera Infantum	278	163	115	2.23	2.45	1.98
11	Brain, Inflammation of	261	144	117	2.09	2.16	2.03
12	Dropsy	226	104	122	1.81	1.56	2,10
18	Diphtheria	213	107	106	1.70	1.61	1,83
14	Bowels, Inflammation of	208	117	91	1.66	1.78	1.57
15	Lung Disease	205	126	79	1.64	1.81	1,36
	Total						
	Total	d 6,529	8,443	3,059	52,23	51.66	52.71
	All Causes	• 12,500	6,665	5,804	100.00	100.00	100.00

A Includes 1 unknown sex.
4 Includes 27 unknown sex.

b Includes 26 unknown sex.
• Includes 31 unknown sex.

[·] Includes Acute and Ohronic.

EXHIBIT I.—Order of Succession of Fifteen Principal Causes of Death, in Michigan, for each of the Years 1869-1874.

Order.	1900.		1870.		1871.		1878		1873.		1874.	
-	Consumption	1,233	1,238 Consumption	1,431	1,431 Consumption	1,306	1,306 Consumption	1,467	1,467 Consumption	1,447	1,447 Consumption	1,392
•	Typhold Fever	153	437 Scarlet Fever	300	862 Scarlet Fever	8	cae Pneumonia	3	641 Pneumonia	906	706 Pneumonia	8
*	Pneumonia	427	427 Typhoid Fever	574	574 Pneumonia	3	41 Typhoid Fever	8	690 Typhoid Fever	119	677 Typhoid Fever	939
•	4 Old Age	310	310 Diarrhea	107	607 Old Age	878	572 Scarlet Fever	8	561 Scarlet Fever	578	578 Still-born	\$
10	5 Diarrhos	8	295 Pneumonia	278	576 Typhoid Fever	257	357 Dysentery	3	456 Old Age	88	428 Scarlet Fever	3
•	6 Scarlet Fever	3	252 Dysentery	27.1	874 Casualty	978	946 Diarrhea	487	437 Spinal Fever	83	428 Old Age	83
7	7 Heart Disease		25. Old Age	813	313 Convulsions & Fits	12	237 Old Age	8	400 Diarrhea	88	356 Diarrhea	88
∞	8 Fover	248	248 Convulsions & Fits	88	281 Heart Disease	2	230 Cholers Infantum.	ž	394 Brain, Infl. of	88	838 Heart Disease	23
۰	9 Dropsy	246	246 Heart Disease	888	256 Diarrhea	216	216 Brain, Ind. of	8	330 Heart Disease	315	315 Dysentery	ਫ਼ੋ
유	10 Dysentery		236 Dropsy	346	246 Brain, Infl. of	216	215 Convulsions & Fits	318	316 Dysentery	818	313 Cholers Infantum.	878
=	11 Brain, Infl. of b	81	Brain, Infl. ofb	22	238 Apoplexy & Paral.	214	214 Small.pox	8	302 Cholers Infantum.	908	306 Brain, Infl. of	88
2	12 Convulsions & Fits		222 Brain Disease	214	214 Dropsy	210	210 Heart Disease	108	301 Convulsions & Fits	200	306 Convulsions & Fits	8
2	13 Brain Disease		204 Bowels, Infl. of	187	187 Bowels, Infl. of	184	184 Bowels, Infl. of	इं	284 Bowels, Infl. of	8	286 Apoplexy & Paral.	83
*	14 Apoplexy & Paral.	8	Obolera Infantum.	181	181 Brain Disease	178	173 Apoplexy & Paral.	8	226 Childbirth	ā	264 Dropsy	8
2	16 Casualty	176	176 Casualty	174	174 Dysentery	821	178 Ohlldbirth	818	918 Apoplexy & Paral.	8	261 Diphtheria	213

This is somewhat different from the similar Exhibit in Report for 1971 because Convulsions and Fits are here combined, as are also Apoplexy and Paralystep the order of succession.
 Copbalitis in Reports previous to 1871.
 Entertits in Reports previous to 1871.

of the years 1869-1874, the diseases being arranged in order,—those causing the greatest number of deaths first. In this exhibit Apoplexy and Paralysis are combined, as are Convulsions and Fits, which changes the order and leaves out some of the diseases included in Table XVIII, because the combination above mentioned crowded them out of the list of affeen which ranked higher. There are eight diseases which appear in the list each year, and Consumption heads the list in Exhibit T is somewhat similar to Table XVIII., and shows the number of deaths from fifteen principal causes, in each

TABLE XIX.—Deaths, in Michigan, from Ten Specified Causes during the Year 1874, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age, according to the returns.

81	EX, MONTHS,				CEN CAI	USES OF	DEATH	I IN 1874	l.		
	AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea. b	Diph- theria.	Dysen- tery.	Monalca.	Scarlet Fever.	Typhoid Fever.	Whooping- ough.
	Total	188	261	142	880	213	304	46	440	610	151
;	Males	84	144	73	218	107	161	21	234	817	•
-	Females	104	117	69	162	106	143	25	206	293	8
	Unknown										1
	January	11	16	14		16		2	84	83	,
	February	11	12	15	9	11	6	4	52	23	
	March	11	17	13	10	11	4	4	55	23	1
	April	14	19	9	12	11	4	1	71	24	1
	May	13	17	8	14	11	4	1	46	81	
	June	20	16	8	23	8	4	12	30	24	1
ECM I HE	July	18	17	7	61	9	21	8	18	30	1
5	August	17	38	7	104	17	102	5	27	50	2
4	September	18	49	10	86	87	94	2	29	104	9
	October	16	28	14	39	23	48	4	31	123	1
	November	18	19	21	15	26	10	2	19	92	
	December	21	13	21	9	83	6	1	28	51	3
	Unknown			•	1		1			8	
	Av. Monthd	15.67	21.75	11.83	81.67	17.75	25.08	3.83	36.67	50,58	12.7
ı	Under 5	7	178	120	349	115	239	81	279	61	14
	5 to 10		27	18	4	67	8	2	106	41	
	10 to 15		12	1	1	15	2	2	84	46	
	15 to 20		4	1		4	1	2	11	108	
	20 to 25	2	11		8	2	4	2	8	74	
	25 to 30	2	2		2	1	2	2		50	
	30 to 35	1	4			1	2	1	1	42	
	85 to 40	8	6			2	5	8	1	27	
4050	40 to 45	16	4			2	8			28	
4	45 to 50	25	j 5		2		8			23	
	50 to 55	24	1				2		1	23	
	55 to 60	22	2		1		7		1	25	
	60 to 65	25	3		2	1	4	ļ		25	 -
Ì	65 to 70	24	 		6		5	ļ		18	 -
į	70 to 75	21	 		2	 	7	ļ		19	
	75 to 90	8		1	4		8	ļ		4	
	80 and over	7	1	 	1	1	4	ļ		6	
	Unknown	1	1	1	3	2	8	1	8	8	

^{*}Includes 10 Membranous Croup, and 2 Spasmodic Croup. • Includes 15 Chronic Diarrhea. • Includes 2 Chronic Dysentery. • Excludes deaths in unknown month.

TABLE XX.—Per Cent. of Deaths during the Year ending December 31, 1874, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent. of each Sex, of Deaths in each Month and at Different Periods of Life, to Total Deaths from each Specified Cause.

s	EX, MONTHS,			TEN C	AUSES O	F DEAT	H IN 197	4,—Per	CENT.		
AND AGES.		Cancer.	Cepha- litis,	Croup.	Diar- rhea.	Diph- theria,	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing- cough,
Per Ct. of All Causes		1.50	2.09	1.14	3.04	1.70	2.43	.87	3.52	4,88	1.22
SEX.	Males	41.68	65.17	51.41	57.87	50.28	52.96	45.65	53.18	51.97	43.14
	Females	55,32	44.83	48.59	42.63	49.77	47.04	54.85	46.82	48.03	56.21
	Unknown		 		 						.65
Months.	January	5.85	6.13	9.86	1,05	7.51		4.35	7.78	5.41	5.88
	February	5.85	4.60	10.56	.53	5.16	1.97	8,70	11.82	8.77	3,92
	March	5.85	6.51	9. 15	2.63	5.16	1.32	8.70	12.50	3.61	10.46
	April	7.45	7.28	6.34	8.16	5.16	1.32	2.17	16.14	3.98	9.15
	Мау	6.91	6.51	5.63	3.68	5 16	1.32	2.17	10.45	5.08	5.23
	June	10.64	6.13	2.11	6.05	8.76	1.32	26,09	6.82	3.93	9.15
	July	9.57	6.51	4.93	16.05	4.23	6.91	17.89	4.09	4,92	8,50
	August	9.04	14.56	4.93	27.37	7.98	83.55	10.87	6.14	8,20	14.38
	September	9.57	18.77	7.04	22.89	17.87	30.92	4.85	6.59	17.05	18.07
	October	8.51	10.73	9,86	10.26	10.80	15.79	8.70	7.05	20.16	7.84
	November	9.57	7.28	14.79	3,95	12.21	8,29	4,35	4.32	15.08	5.88
	December	11.17	4.98	14.79	2.87	15.49	1.97	2.17	6.36	8,36	6.54
	Unknown				.26		.33			.49	
	Av. Month	8,33	8.83	8.33	8.31	8.33	8,31	8.33	8,33	6.29	8.83
	Under 5	8.72	68.20	84.51	91.84	53,99	78,62	67.89	63.41	10.00	95.42
AGES.	5 to 10		10.84	12.68	1.05	31.46	2.63	4.85	24.09	6.72	3,92
	10 to 15		4.60	.70	.26	7.04	.66	4.35	7.73	7.54	
	15 to 20		1.53	.70		1.88	.33	4.35	2.50	16,89	
	20 to 25	1.06	4.21		.79	.94	1.32	4.35	.68	12.13	
	25 to 30	1.06	.77		.53	.47	.66	4.35		8.20	.65
	30 to 85	.53	1.53			.47	.66	2.17	.23	6.89	
	35 to 40	1.60	2.30			.94	1.64	6.52	.23	4.48	
	40 to 45	8.51	1.53			.94	.99			4.59	
	45 to 50	13,30	1.92		.53		.99			8.77	
	50 to 55	12.77	.38				.66		.23	3.61	
	55 to 60	11.70	.77		.26		2.30		.23	4.10	
	60 to 65	13.30	1.15		.53	.47	1.82			4.10	
	65 to 70	12,77			1.58		1.64			2.13	
	70 to 75	11.17			.58		2,30			1.97	
	75 to 80	4,26		.70	1.05		.99			.66	
	80 and over	8.79	.38		.26	.47	1.32			.98	
	Unknown	.53	.38	.70	.79	.94	.99	2.17	.68	1.81	

^{*} Excluding deaths in unknown month.

The ten specified causes of death tabulated in Tables XIX. and XX. are studied in the corresponding tables for each year. Of the ten diseases, typhoid fever ranks the highest, and measles the lowest, in 1874. Consumption and pneumonia are two important diseases not included in these tables, because so thoroughly studied, each in connection with the other, further on. Of the other diseases mentioned in Tables XIX. and XX., those not further studied in connection with meteorological conditions or with other diseases are here noticed in alphabetical order; those which receive further study are considered as nearly as is practicable in alphabetical order after the tables and exhibits relating to meteorological conditions.*

Cancer.—The number of deaths returned as having been caused by cancer in 1874 was 188,—84 males and 104 females. The largest number was returned as having occurred in December, and of the different ages, the number between the ages of forty-five and fifty is the lowest. Of the 188 deaths from cancer, the location of the disease was stated in only 94 cases,—only half the number of deaths from cancer. There were 49 cases of cancer of the stomach,—more than one-quarter of all the deaths from cancer; and 13 cases of cancer of the breast. It is to be regretted that so many of the cancers are unspecified as to parts of body affected. Exhibit S shows the number, by sex, by part of body affected, as stated in the returns. For each of the years 1869–1870, there were more deaths of females than of males from cancer; and in 1974 there were more deaths from this disease than in any previous year, according to the returns.

EXHIBIT S.—Deaths from Cancer returned as having occurred in Michigan during the Year 1874, indicating part of body affected.

AS RETURNED, 1874.	Total.	Malos.	Fo- males,	AS RETURNED, 1874	Total	Males,	Fe- males.
Cancer of Arm	1	1		Cancer of Stomach	49	29	90
Cancer, "Blood"	1	 	1	Cancer of Throat	1		1
Cancer of Bowels	1		1	Cancer of Womb	7		7
Cancer of Brain	1	1		Internal Cancer in Abdomen	1		1
Cancer of Breast	13		18	Milk Cancer	1	1	
Cancer of Chin	1	1		Rose Cancer	1		1
Cancer of Face	6	4	2	Stone Cancer in Stomach	1	1	
Cancer of Liver	2	2		Tumor Cancer on the Tongue	1		1
Cancer of Mouth	8	8		Total Specified	94	4	80
Cancer of Neck	1		1	Cancer (Unspecified)	94	40	54
Cancer of Nose	1	1					
Cancer of Stomach and Œsophagus	1		1	Aggregate Deaths from Can-	188	84	104

^{*}It may be remarked that the general plan of arrangement of material in this Report is to have those statements which are most general in character precede those which are more special; accordingly, statements of the total deaths in the State precede those for the several counties, statements for the year precede those for the several months, statements of deaths from all causes precede those from specified causes; after all specified causes follow statements of deaths from the group of causes compiled as casualty, then the group of modes of death by suickle, deaths from affect principal causes, deaths from the group of modes of death by suickle, deaths from considered in alphabetical order except when two or more diseases are best studied in connection with each other.

Cophalitis.—In 1874, 261 deaths were caused by Cephalitis, according to the returns, 144 of which were of males, and 117 of females. This is 2.09 per cent. of the deaths from all causes, and is less than the number returned for 1872 or 1873, and more than the number returned for the other years. In each year except 1870, there is an excess of male decedents from this disease. The largest proportion of the deaths occurred in September, the smallest in February. August, September, and October are the only months in which there was more than the monthly average proportion of deaths from Cephalitis. Of all the deaths from this disease in 1874, 68.20 per cent. were of persons under five years of age.

Measles.—There were 46 deaths from Measles returned for the Year 1874, which is .37 per cent. of the deaths from all causes,—a smaller proportion than for any previous year. This disease in 1874 was most prevalent in June, 26.09 per cent. of the deaths from measles having occurred in that month; and 67.39 per cent. of the decedents from this disease were under five years of age. Since 1869 the proportion of deaths from Measles has been constantly increasing with each year up to 1874, when it dropped down below any of the

years 1870-1873.

Whooping-cough.—The number of deaths returned as having been caused by Whooping-cough in 1874 was 153, which is just half as many as were returned for 1873. The number of decedents from this disease in 1874 is 1.22 per cent. of decedents from all causes; in 1873 and in 1872, the number was 1.44 per cent. of the total deaths. The largest proportion in 1874 occurred in August, the least in February; and 95.42 per cent. were of persons under five years of age. There was only one decedent from this disease in 1874 reported to have been over ten years of age. There was an excess of males in 1872 and 1873, but in the other years the excess was of females.

METEOROLOGICAL CONDITIONS, AND THEIR RELATIONS TO DEATHS.

In this, as in preceding Reports, the meteorological conditions to which the most study is given are those observed at the State Agricultural College, near Lansing; because for this station we can secure the record of a more complete and continuous series of observations than at other points, and especially because it is near the center of the thickly-settled portion of the State, and therefore more nearly than other stations representative of the conditions which prevailed where the greatest proportion of the deaths in Michigan occurred.

In the last three Reports the most important meteorological data have been printed in tables in connection with statements relative to deaths from the different diseases being studied, and the few tables on meteorology alone have been placed near the close of the volume. In this Report the relations of deaths to meteorological conditions are more comprehensively studied, and it seems better to place the general meteorological tables preceding the special studies, so that reference may the more easily be made to them in the special study of any given disease. Accordingly Tables XXX., XXXI., and XXXII. appear in this part of the Report, but their numbers remain the same as in preceding Reports in order to avoid liability to errors in references. Exhibits 10, 11, and 12 are new ones, planned for this Report.

Exhibit 10, page 264, permits a comparison of the temperature in 1874, and in each month of the year 1874, with the temperature in each of the years, and in each month of the years, 1865 to 1874, inclusive, and with the average temperature for each month during the ten years, 1865-74.

Diagram No. 6, page 265, renders easy comparisons of temperature in each month of 1874, with that in any month during the years 1871 to 1874, inclusive, and also with the average temperature, for any given month, during the ten years ending with 1874. For 1874, the high temperature in January and the low temperature in April are quite noticeable.

Exhibit 11, page 268, makes possible a comparison of the absolute humidity of the atmosphere in 1874 and in each month of the year 1874, with the humidity in each of the years, and in each month of the years 1865 to 1874, inclusive, and also with the average humidity for each month during the tenyears, 1865-74.

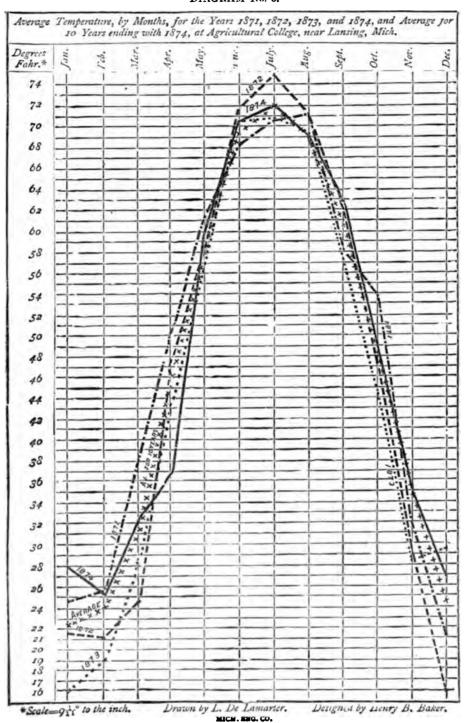
Diagram No. 7, page 269, pictures to the eye the comparative humidity of the atmosphere in each month of the year 1874, and exhibits at a glance the relations of the different years, and of the several months in the years 1871 to 1874, inclusive, as also the relation of each month to the average for that month during the ten years ending with 1874, so far as relates to absolute humidity of the atmosphere. For 1874, the comparative dryness of the air in April, and especially in July and August, is very noticeable.

EXHIBIT 10.—TEMPERATURE.—Average by Years and by Months, for the Years 1865 to 1874, inclusive, at the Agricultural College, near Lansing, Michigan, and near the center of the thickly-settled part of the State. (Results of Observations by Prof. R. C. Kedzie.)

YEARS.	ANNU-	Ava	RAGE '	TEMPE	RATUR	, STAT	ED IX	Degri	ES FA	HRENH	EIT, BY	Mont	H8.
i EARS.	AVER- AGE.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865	47.70	21.10	27.59	36,96	47.40	57.65	70.76	65.60	65.84	67.66	46.50	38.63	26,79
1863	45,60	21.16	22.71	29.60	48.94	55.04	66.60	71.72	62,60	55.80	49.50	87.94	25.53
1967	46.96	17.61	30.89	29.72	48,20	5L11	71.61	71.60	69.78	56.60	50.60	40.44	25.81
1868	46.35	19.00	18.72	37.80	43.68	59.08	68.46	77.19	70.88	58,77	45.19	36.77	21.16
1869	46.27	29.86	26.66	27.60	45.70	56.02	64.45	70.85	70.58	63,45	40.80	32,05	98.16
1870	49.11	25.37	24,25	30.28	50,39	64.82	70.87	74.40	70.11	63,66	52.45	38.40	24.80
1871	47.93	24.75	25.65	38.18	50.18	61.39	68.21	70.60	71.19	58.10	58.91	81.95	2L 11
1879	45.54	21.59	21.34	24.75	47.89	58,48	71.82	74.91	71.23	62.08	47.44	29,80	15.74
1873	44.54	15.87	19.10	28.30	48.17	56.98	70.60	70,83	69.49	57.38	44.06	28.49	29.54
1874	47.89	27.70	25.51	32.30	86,87	59.58	70.61	72.03	60,39	62.85	49.10	35,00	26,96
Av. for 10 years.	46.78	22.25	34.34	81.55	46,19	57,97	69.40	71.92	69.05	60.63	48.03	34.95	24,50

The last five lines in Exhibit 10 are graphically represented in Diagram No. 6, opposite this page.

DIAGRAM No. 6.



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TABLE XXXI.—TEMPERATURE.—Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in 24 Hours and in 14 Hours for each Month of the Year 1874, at the Agricultural College, near Lansing, Michigan.

					TEM	PERATU	re,—F	HA	RENHEI	T, 1874	L			
YEAR	Daily Obser.	TH	ISTEI ERMO ETER.	M-	Avei		IN 24	Ho	CHANGE OURS,— 2 P. M.	IN 1	Ho	CHANGE UES,— 9 P. M.	THE TER, EST	ISTERING REMOME- -GREAT- CHANGE 4 Hours.
MONTHS, 1874.	Average of 3 L vations, -7 A. and 9 P. M.	Highest,	Lowest.	Range.	Dally,-7 A. M. to 9 P. M.	From Day to Day, -2 P. M. to 2 P. M.	Degrees of Rise and	- Carre	Day of Month.	Degrees of Rise and	Fall.	Day of Month.	Degrees of Change,	Day of Month.
Year, 1874	47.32	101	-7	108	15.65	18.27	R,	40	Oct. 19	R.	40	Oct. 19	46	Sept. 11
January	27.70	59	-7	66	10.58	13,13	R.	28	26	F.	31	4	40	11
February	25.51	48	-1	49	12.32	14.07	R.	28	8 & 11	R.	28	8 & 11	30	8
March	32,30	67	8	59	13.52	16.45	F.	29	18	R.	26	14	37	4
April	36,87	68	3	65	16.53	19.73	R.	33	13	R.	30	13	42	18
May	59,58	96	21	75	17.65	20.84	F. & R	. 33	13 & 27	R.	33	27	43	6
June	70.61	95	34	61	15.53	19,07	F.	29	20	R.	26	13	35	19 & 21
July	72.02	98	44	54	17,68	21.35	R. & F	. 31	6 & 15	R. & F	. 28	4 & 22	43	4
August	69,39	101	41	60	17.23	19,61	R. & F	. 27	17	R.	27	17	39	17
September	62.85	95	30	65	23,87	27.57	R.	37	11	R.	37	11	46	11
October	49,10	76	16	60	17.81	19,45	R.	40	19	R.	40	19	41	19
November	35,00	70	3	67	13,10	13.83	R.	31	6	R.	31	6	39	10
December	26,96	50	-6	56	12.00	14.13	R.	29	25	R.	23	2	32	26 & 27

Tables XXX., XXXI., and XXXII. have for preceding years been printed in the back part of the Report; but as they bear on the mortality from different diseases, it is thought best to have them precede the study of special causes of death, so that references may more easily be made to them.

Table XXX. is identical in plan with the corresponding table for 1873, but Table XXXI. has been somewhat changed from that for 1873. In obtaining the highest, lowest, and range of the thermometer, we used the registering thermometer, which records the actual maximum and minimum for each day in the year, and from these we obtain the range. In preceding Reports, we have used the three daily observations on the thermometer,—at 7 A. M., 2 P. M., and 9 P. M.,—for obtaining the highest, lowest, and range, because the observations on the registering thermometer were not at hand for use.

Besides this change, the last two columns have been added to the table, showing the greatest change in the temperature in 24 hours, as indicated by the registering thermometer.

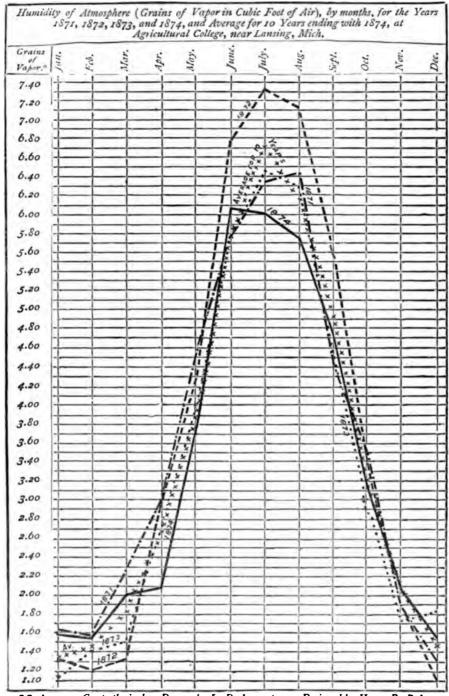
By this table it appears that the range of temperature at the Agricultural College, near Lansing, Mich., in 1874 was 108 degrees; and that the greatest

change in any one month occurred in May, when the mercury stood as high as 96, and as low as 21 degrees, making a range of 75 degrees. The greatest change in the temperature of any single day of twenty-four hours occurred on the eleventh day of September, when the thermometer registered as high as 95, and as low as 49 degrees, making a change of 46 degrees.

EXHIBIT 11.—Absolute Humidity.—Grains of Vapor in Cubic Foot of Air, by Months, for the Years 1865 to 1874, inclusive, at the Agricultural College, near Lansing, Michigan.

****	ANNU-		G	RAINS	of Va	POR IN	Ствіс	Foot	op An	R, BY Ì	LONTE:	8.	
YEARS.	AVER- AGE.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865	3,56	1.10	1.39	2.14	2.86	4.20	6.53	5.94	6.02	5.77	3,05	2.27	1.45
1886	3.27	1.28	1.85	1.67	2.71	2.96	5.34	6.90	5.18	4.60	3.51	2.22	1.45
1967	3,26	1.12	1.80	1.59	2,26	2.63	6.09	6.00	5.73	4.97	3.25	2.25	1.49
1868	3.31	1.10	1.13	2.50	2.61	3.78	3.50	8.51	5.99	4.90	2.75	2.28	1.39
1869	3.42	1.93	1.78	1.49	2.56	3.65	5.52	6.49	6.56	5.13	2.56	1.89	1.55
1870	3.90	1.50	1.35	1.76	3.06	4.92	6.43	7. 19	6.54	5.45	3.95	2.22	1.70
1871	3,56	1.63	1.58	2.28	3.00	4.53	5.77	6.35	6.43	4.41	3.48	1.89	1.31
1872	3.70	1.31	1.23	1.32	2.99	4.29	6.78	7.33	7.17	5.57	3.40	1.89	1.13
1873	3.36	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.73	1.83
1874	3,36	1.58	1.55	2.00	2.08	3.77	6.07	6.00	5.75	4.72	3.15	2.06	1.55
Av. for 10 years.	3.47	1.37	1.46	1.83	2.68	3.88	5,79	6.72	6.16	4.93	8.20	2,07	1.48

The last five lines in Exhibit 11 are graphically represented in Diagram No. 7, opposite this page.



Seale=1.00 Gr. to the inch. Drawn by L. De Lamarter. Designed by Henry B. Baker.



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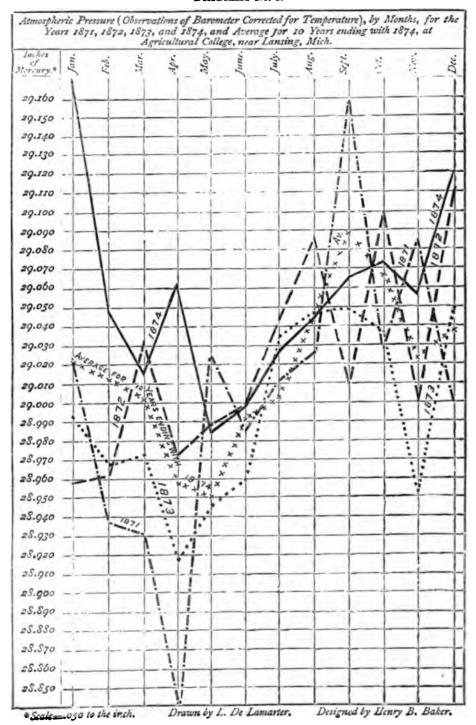


Exhibit 12 shows, by months, the average atmospheric pressure, as indicated by the barometer for each of the years 1865–1874, and the averages for ten years ending with 1874. The atmospheric pressure as shown in this exhibit for each month of each year is twelve hundredths (.12) of an inch higher than is shown in preceding reports for the several years, respectively, because of correction for instrumental error. A new barometer was obtained for observations in 1875 at the Agricultural College, near Lansing, Mich., and it was found that the old barometer indicated twelve-hundredths (.12) of an inch too low; and in making Exhibit 12 and Diagram No. 8, the annual and monthly averages as published in the Reports of the Michigan Board of Agriculture for each year previous to 1875 were increased by twelve hundredths (.12) of an inch, hence the discrepancy shown between Exhibit 12 and Diagram No. 8, and the several exhibits and tables heretofore published, showing the atmospheric pressure.

EXHIBIT 12.—PRESSURE OF THE ATMOSPHERE.—Observations of Barometer Reduced to Freezing Point, and corrected for instrumental error (+.12) for each of the Years 1865 to 1874, inclusive, and the average for ten Years ending with 1874, at the Agricultural College, near Lansing, Michigan. (Based upon Observations made by Prof. R. C. Kedzie.)

	AMNU-		PRESSU	RE OF T	HE ATM	OSPHER.	BY MO		CHES O	P MERC	URIAL (OLUNN,	
YEARS.	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865	29.001	29.007	29,069	28,926	28,935	28,927	28.988	28,908	29.073	29.074	29.025	29.067	29.011
1966	29.083	29.183	29,090	29.079	28,968	28.943	28,908	29.025	29,004	29.076	29.099	29.066	29.013
1867	29,002	28.977	29.024	29.050	28.872	28.901	28,992	29.035	29.031	29.120	29,080	28,952	28,968
1868	29.051	29.014	29.184	29,007	29.031	28.942	29.106	29,032	29.063	29.066	29.120	29.029	29.078
1869	29.007	28.950	28.959	29.054	28,947	28,869	28,976	28.964	29,088	29.140	29.040	28,983	29.119
1870	28,996	28,987	28,927	28.965	29.022	28.977	29.000	28,956	29.010	29.142	29.059	29.023	28.892
1871	28.988	29.023	28.936	28,930	28.842	29.024	28,985	29,011	29.027	29. 158	29.029	29,084	29.000
1872	29.007	28.958	28,962	29.031	28.972	28,988	28,999	29.044	29.087	29.010	29.099	29.001	29.112
1873	28.994	28,993	28.967	28.972	28.918	28.946	28.960	29.034	29.047	29,048	29.037	28,953	29.049
1874	29,055	29.168	29.048	29.015	99.061	28,984	28,998	29.027	29.044	29,066	29.073	29.057	29.121
Av	29,013	29.021	29.012	29.006	26.957	28,950	28.991	29.004	29.047	29,089	29,066	29.022	29,038

[•] Average for 10 years ending with 1874.

The last five lines in Exhibit 12 are graphically represented in Diagram No. 8, opposite this page. The unusually high barometer in the first four months of 1874 is noticeable, and especially so in January and April, 1874.

TABLE XXX.—Exhibiting, for the Year, for each Month, and an Average Month, during the Year 1874, the Average Height and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it rained or snowed; and the Depth of Rain and Melted Snow in Inches, at the Agricultural College, near Lansing, Michigan.

	32° Fah.		-	DAY	0.	Pasv	AILI	NG W	INDS.		y, or Per Cent.	s of Sky,	which it,	in Inches.	Ozoz Rela Maxi	TIVE.
YEAR AND MONTHS, 1874.	Barometer, Reduced to 32° renheit,—Average.*	Range of Barometer.	North.	North-east,	East,	South-east,	South.	South-west.	West	North-west.	Relative Humidity, or of Saturation, -Ave	Per Cent, of Cloudiness	Number of Days on w Rained of Snowed.	Rain and Melted Snow, in Inches	Day, -7 A. M. to 2	Night, -9 P. M. to 7
Year, 1874	28.935	2.069	5	37	10	49	6	146	24	79	78	53	99	22,98	4.11	3.99
January	29.048	1.159	1	2		5	3	8	1	9	88	75	12	3.53	5.10	6,39
February	28,928	1.387	2	4	1	7		9	1	3	89	70	7	1.55	5.56	6.10
March	28,895	1.081		2	1	4	1	14		9	83	54	8	1.79	5.00	6,00
April	28,941	1.082		6		4		10	2	8	75	46	8	1,67	5.70	6.60
Мау	28,864	.785		6	1	2		13	3	6	62	47	8	1.78	5.80	4.90
June	28,878	.696		2		4		12	5	5	75	54	12	5.07	3,50	2.34
July	28,907	.465		2	1	3		13	3	9	71	37	6	2.56	1.80	1.50
August	28,924	.503		7	5	4		9	1	5	74	31	5	1.28	2.80	1.10
September	28,946	1.075		1		2	2	17		7	76	36	10	1,27	2,90	1.20
October	28,953	,995	2	2		4		14	1	8	79	58	6	.49	3.32	3,01
November	28,937	1.712		2		6		14	3	3	77	63	10	1.61	3,80	4.50
December	29,001	1.274		1	1	4		13	4	7	85	65	7	.38	4.00	4,20
Monthly Average	28,935	1.018	.42	3,08	.83	4.08	.50	12.17	2.00	6,58	78	53	8.25	1.92	4.11	3,99

a Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 972.)

b Since the tables including them were made, it has been ascertained that the statements in this Report concerning the range of atmospheric pressure as indicated by the Barometer, at the Agricultural College, are unreliable; and implicit confidence cannot be placed in other statements relative to atmospheric pressure. They were compiled from the printed tables in Report of the Michigan Board of Agriculture, and these tables contain so many manifest errors that no confidence can safely be placed in them. Such undoubted errors as the following are noted in the tables for 1874: On February 18, the Barometer is stated to have shown, at 7 A. M., 32.604 inches; on September 25, at 7 A. M., 32.671 inches; on October 2, at 2 P. M., 18,731; on November 22, at 7 A. M., 78.675; on December 6, at 9 P. M., 18,747, etc., etc.; and various other statements are found which are probably wrong, although less manifestly so. In consequence of such evident errors in the printed tables from which the statements on this point in this report are made, it is unasfe to draw conclusions from them as to the relations of range of atmospheric pressure to deaths from any given disease.

TABLE XXXII.—Some Meteorological Conditions at certain Localities in Michigan, by Months, during the Year 1874.

		DETECT.)II.			BOAKABA.	4			GRAND HAVEN.	HAVEN.		,	Marquette.	erre.	
MONTES, 1874.	Average Barome- ter.	Average Temper- ature,—	Total Reinfall, in Inches	Prevall- tog Wind.	Average Barome- ter.	A verage Temper- ature,— Fabr.	Total Balafali, fn Inches	Prevail- ing Wind.	Average Barome- tar.	Average Temper- ature,—	Total Rainfall, in Inches.	Prevail. ing Wind.	Average Barome- ter.	Average Temper- stare,— Fahr.	Total Bainfall, in Inches.	Prevail. ing Wind.
Tear, 1874.	30.013	48.6	88.68	8. W.	86.88	40.5	31.10	, es	30.081	47.6	23.15	8. ₩.	29.988	41.9	24.94	м. ж.
January	30.074	889	5.16	8. W.	30.064	18.8	8	N. W.	\$90.08	*		æ	30.057	1 23	83	M. W.
February	30.102	27.5	8	Ħ	30,080	17.8	30	z.	30,105	27.6	:	8. ₩.	30,080	19.9	0.8	N. W.
March	190.00	27.8	25	M. W.	19.93	ä	25.	N. W.	30.017	22		N. W.	29,300	ă	9.4	N. W.
April	30,029	87.8	1.80	X. K.	30.071	28.1	0.47	zi zi	30.067	2		8. W.	30,071	30.3	80	N. W.
Жау	20.928	0.00	1.98	ж. ж.	19.00	48.9	28	z.	20.00	26.6	22	8. ₩.	29.864	51.8	202	X. W.
Jane	29.906	684.9	23	8. W.	29.870	9.0	20.00	κi	29.037	65.9	5.79	₩.	29,880	58.8	22	N. W.
July	29.930	71.4	2	% ₩	20,806	88	85	ගේ	12.2	Ę	4	æi	20,888	64.5	248	8. W.
August	29.962	67.9	211	Ħ	29.806	64.4	8.74	zi	80.00	8	1.19	X.	20.00	88	26.38	œi
September	30,008	66.7	0.67	8. ₩.	29.966	90.1	3.94	ත්	88.98	8	58	8. W.	29.928	90.3	8.8	න්
October	30.054	51.8	0.78	8. ₩.	30,020	45.5	8.27	න්	30.068	979	1.48	N. W.	20.024	46.8	G. 13	N. W.
Movember	30.078	38.4	83	.	20.988	31.8	77	N. W.	30,150	80.8	2.5	₩.	20.974	31.0	241	₩.
December	30,066	28.7	80	8. ₩.	30,030	21.2	3	s, ¥	30,063	20.7	88.0	N. W.	30,006	22	95.0	₩.
Average Month	33.013	\$ \$	81		20.303	20	2		30,061	47.6	1.10		20.988	41.8	80.4	

Table XXXII. is made from data obtained from the "Annual Report of the Chief Signal Officer to the Secretary of War," for the years 1874 and 1875. . Last eight months of 1674.

DEATES AND COINCIDENT METEOROLOGICAL CONDITIONS.

EXHIBIT 13.—Deaths returned as having occurred from All Causes in Michigan during each of the Years 1869-1874, Per Cent. of Deaths to the Estimated Population in each Year, and some Meteorological conditions existing at the same time, at the Agricultural College, near Lansing, and near the center of the thickly settled part of the Slate.

YEARS 1869-1874, IN ORDER BY		DEATHS REPORTED	TIIS KTED.	TEMPERA MEAN O OBSERV. 2 P. M.,	TEMPERATURE, FARIL, J. MEAN OF THREE DAILY ORSERVATIONS, —7 A. M. 2 P. M., AND 9 P. M.	Ann.; Dailey 7 A. M., M.	Humidity of Athosphere, Etc.,—Monthly Averages.	PITY OF ATMOSP ETC., MONTHEY AVERAGES.	SPHERE, LY	OZONE,—REL- ATIVE, MAXIMUM=10,	-REL-	-пэртеп-	ncpes.	ВАКОМЕТЕЯ ВАВОМЕТЕЯ	RANGE OF BAROMETER, 5-
PER CENT. OF REPORTED	*#		o Es.	AVERAGE	RANGE.		r Per	-eA	A Air.	·ĸ	'ж .		Int ,w		
4 18 P	Estimated Inhabitant	Zumber.	Per Cent of Deaths t	Delly.	From Day to Day,—	Temperature.	Relative Humidity, or	Force or Pressure of por, in Inches.	Weight, in Grains, of por in Cubic Foot of	Day,—7 A. M. to 2 P.	л Т от . и . ч е—, tdgiZ	Barometer Reduced heit,-Ave	Rain and Melted Snor	.lannuA	Average Daily.
then Av. rate. [1873]	1,358,848	14,258	1 05	14.37	17.67	1971	88	765.	3,36	4.02	4.63	28.874	31.745	1.307	.14
Mosth the Desth	1,297,973	13,371	1.03	15.31	18,14	45.54	83	.838	3.70	60	4.24	28.887	26,853	1.902	.193
Average	1,260,186	11,628	8	15.66	18.62	46.74	81	.313	3.56	3.65	4.39	28.801	916'65	2.397	.13
	1,184,282	10,766	.91	17.11	19.03	49.10	18	.341	3,90	-		28.876	37.757	1.366	
dian	1,422,578	12,500	88.	15.65	18,27	47.05	78	.294	3.36	4.10	3.99	28,935	22,959	2,069	.130
1869 1869	1,057,608	9,145	98.	15.00	-	c 46.27	81	.302	3.49	-		28.887	33,153	1.660	
	1,239,825	9,728	.78	16.52	19.97	47.93	80	315	3.56			28,884	27.210	6,679	********

- See footnotes to Exhibit K, page 279.

b See footnote b, page 274.

Exception to the proposition that the temperature was less than the average in years in which the death-rate was greater than the average, and vice versa.

EXHIBIT 14.—Deaths returned as having occurred in Michigan from All Causes, by Months, during the Year 1874, and some Meleorological Conditions existing at the same time, at the Agricultural College, near Lansing, and near the center of the thickly-settled part of the State.

MONTHS		DEAT	ватив Вероптко риом	TEED P	ROM ALL	ALL CAURES, 1	1874.		MEAN OF 3 L	A A	LY ORSER- -, 2 P. M., M.	n Inches.	HOME	HUMIDITY OF AT MOPPIERE, ETC., -MONTELY AV ERAGES.	FTC.	OZO RELA MAX	OZONE,— RELATIVE, MAXINUM = 10.	25. Lsp-	* RA BARON	* RANGE OF BAROMETER
NUMBER OF REPORTED		Исивев.			P	PER CENT. OF TOTAL.	or Toral	4	AVERAGE	E BANGE		snow, i	to, or	lo 91	100A	ж.я	W.A.	or bes	.10	
DEATHS FROM ALL CAUSES, GREATEST NO. FIRST.	,fatoT	Males	Females,	Спквочи,	JatoT	Males.	Females.	Сикпови.	Daily.	From Day to Day, -2 r. m.	Temperature.	Rain and Melted	Relative Humbdi	Force or Pressu Vapor, in Inche	Weight, in Grain Vapor in Cubic of Air, a	Day,-7 A, M. to 2	Mght,-9 P. A. to	Barometer Redu	Monthly, and Ye	Average Daily.
ear, 1874b	12,454	6,637	5,786	31	100,001	100.00	100.001	100,00	15.65°	18.27°	47.05°	22,950	78	16:	3.36	4.10	3,99	28.035	2.069	.130
Sept	1,517	803	711	+	12.18	12.08	12,29	12,90	23,87°	27.57°	62.83	1.266	76	25	2:4	2.00	1.20	28.946	1.075	070
Aug	1,388	736	651	1	11,15	11.00	11.25	3,23	17.23	19,61	69.39	1.278	7.	.527	5.75	5.80	1.10	g 28,924	.503	290.
Oct	1,211	019	299	4	9.73	19.6	9.80	12.90	17.81	19.46	49.10	494	120	585	3,15	3,32	3.01	28,953	393	.141
Dec	1,120	909	210	+	8.99	9.13	8.81	12,90	c 12,00	0 14.13	d 26.96	.375	85	.135	.T22	4.00	r 4.20	29,001	1.974	. 199
April	1,102	909	496	-	8.83	9,13	8.57	-	16,53	19.73	d 36.87	1.668	75	.169	2.08	62.20	r G.60	28,941	1.082	.155
May	1,071	221	518	01	8,60	8.30	8.95	6.45	17.65	20.84	59.58	1.776	62	.333	3.77	15.80	r 4.90	z 23,864	.785	.11
Average	1,038	553	55	10	8.33	8,33	8,33	89 6	15.65	18.97	47.05	1.913	78	16:	3.36	4.10	3.99	28,935	1,018	.130
Nov.	968	517	448	00	17.7	7.79	7.74	9.68	13,10	13.83	35.00	e 1.612	11	.145	2.06	13.80	4.50	g 28,937	1.719	.175
July	965	251	435	9	7.75	2.90	7.52	19.33	e 17.68	c 21.35	4 72.02	2.560	71	.530	6,00	1.80	r 1.50	28.907	.465	.078
March	919	200	416	00	7.38	7.53	7.19	9.68	13.52	16,45	32.30	e 1.786	83	.161	2.00	2.00	6.00	28.895	1.081	.133
June	998	471	395	1	6.93	7.10	6.83	-	15 53	0 19.07	d 70.61	5,067	75	.530	6.07	13.50	12.34	28,878	969.	.084
Feb	679	349	319	4	5.40	5.26	5.51	19.90	12,33	14.07	25.51	• 1.550	8	.128	1.55	5.53	6,10	28.928	1,387	171.
Jan.	655	335	330	1	5.26	5.05	5,53		10.58	13.13	27.70	3,528	88	.135	1.58	5.10	68.9	g90.048	1.159	. 165

* See fractuote b, page 274.

* See fractuote b, page 272.

* See fractuote b, page 273.

* Excluding Deaths in Unknown Month.

* Second of Exhibit K, page 272.

* Exceptions to the proposition that the average number of deaths occurred, and were versa.

* Exceptions to the proposition that the average in months when more than the average number of deaths occurred, and were versa.

* Exceptions to the proposition that the Corne was less than the average in months when more than the average number of deaths occurred, and wice versa.

* Exceptions to the proposition that the Average in months when more than the average number of deaths occurred, and wice versa.

* Exceptions to the proposition that the Average in months when more than the average number of deaths occurred, and wice versa.

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In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence, only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

Croup.—The number of deaths returned as having been caused by Croup in 1874 is 142, which is 1.14 per cent. of the deaths from all causes. The excess is of the males for each of the years 1870–1874. Nearly thirty per cent. of all the deaths returned from Croup in Michigan in 1874 were reported to have occurred in the two months of November and December. The smallest proportion occurred in June. As is the case in each year, a very large proportion of the decedents from Croup are under the age of five years, 84.51 per cent. of the deaths from this disease in 1874 being of persons under five years of age.

In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those mouths for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that more than an average number of deaths from Croup occurred in months when the temperature was lower than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than an average quantity of vapor inhaled, there was only one exception in 1874. that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—Croup.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

1	formus	CRO	ATHS ROM OUP IN 874.	Mean	of thre vations , 2 P.	-Fahr.; se Daily , - at 7 M., and			OF A			c.,	OZON RELAT MAXIM 10	UM=	verage.*
in (ONTHS	-		Ave Rar	rage ige.			Cent.	or, in	or in	Vapor in 24	of Vapor ges in 24 nbaled, c			shr., —A
DEA (GR	MBER OF THS FROM CROUP, EATEST FIRST.	Number.	Per Cent. of Total.	Dally.	From Day to Day,-2 P. M. to 2 P. M.	Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per of Saturation.	Force or Pressure of Vapor, Inches.	Weight, in Grains, of Vapor Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours, b	Weight, in Truy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled, c	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahr.,—Average.*
Ye	ar, 1874	d 142	100.00	15.65	18.27	47.05	22,959	78	.294	3.30	2.10	9.58	4.10	3.99	28,935
<u> </u>	Nov	21	14.79	13.10	13.83	35.00	1.612	77	.145	2,06	1.29	10.39	3.80	4.50	28.937
More than the Average Number of Deaths.	Dec	21	14.79	12.00	14.13	26.96	.375	85	.135	1.55	.97	10,71	4.00	4.20	29.001
P De	Feb	15	10.56	12.32	14.07	25,51	1.550	89	.128	1.55	.97	10.71	5,53	6.10	28.928
and to the	Jan	14	9.86	10.58	13, 13	27.70	3.528	88	.135	1,58	.99	10,69	5.10	6.39	29.048
a in	Oct	14	9.86	17.81	19.45	e 49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28,953
N N	March	13	9. 15	13.52	16,45	32,30	1.786	83	.161	2.00	1.25	10.43	5.00	6,00	28.895
Av	erage	12	8.33	15.65	18.27	47.05	1.913	78	.294	3,36	2.10	9.58	4.10	3,99	28.935
٤.	Sept	10	7.04	23.87	27.57	62.85	1.266	76	.422	4.72	2.95	8.73	2,90	1.20	28,946
Less than the Average Number of Deaths.	April	9	6.34	16.53	19.73	e 36,87	1.668	75	.169	2.08	f 1.30	10.38	5,70	6.60	28.941
₽ Pa Pa	May	8	5.63	17.65	20,84	59,58	1.775	62	.323	3.77	2.36	9.32	5.80	4.90	23,864
an t	July	7	4.93	17.68	21.85	72.02	2.560	71	.539	6.00	3.75	7.93	1.80	1.50	28.907
î. E E	August_	7	1 .93	17.23	19.61	69,39	1.278	74	.527	5.75	3.59	8.09	2,80	1.10	28,924
3~	June	3	2.11	15.53	19.07	70,61	5,067	75	,559	6.07	3,79	7.89	3.50	2.34	28,878

The range of the thermometer during the year 1874 was 108 degrees.

Note.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

* Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated)

b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

* Assuming the air exhibited to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

4 Includes 10 Membranous Croup, and 2 Spasmodic Croup.

* Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.

f Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

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In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those mouths for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that more than an average number of deaths from Croup occurred in months when the temperature was lower than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than an average quantity of vapor inhaled, there was only one exception in 1874. that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—Croup.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

	IONTHS	Cho	ROM CP IN 874.	Mean	of thre	Fahr.; e Daily , — at 7 M., and			OF A			c.,-	OZON RELAT MAXIN	TIVE.	Average.*
IN C	ORDER BY			Ave				Cent.	Vapor, in	or in	Vapor in 24	Vapor a in 24 saled.c		Ħ	fahr.,-
DEA GR	THS FROM CROUP, SEATEST FIRST.	Number.	Per Cent, of Total,	Dally.	From Day to Day,-2 P. M. to 2 P. M.	Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per of Saturation.	Force or Pressure of Vap	Weight, in Grains, of Vapor Gubic Foot of Air.s	n Troy Ounces, of by one person	Weight, in Truy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.c	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahr., Average.
Yes	ar, 1874	4142	100.00	15.65	18.27	47.05	22,959	78	.294	3,30	2.10	9,58	4.10	3.99	28,935
98.	Nov	21	14.79	13.10	13.83	35,00	1.612	77	.145	2.06	1.29	10.39	3.80	4.50	28,937
atha	Dec	21	14.79	12,00	14.13	26,96	.375	85	.135	1.55	.97	10,71	4.00	4.20	29.001
the Average of Deaths.	Feb	15	10.56	12.32	14.07	25.51	1.550	89	.128	1,55	.97	10.71	5.53	6.10	28,928
er o	Jan	14	9.86	10.58	13, 13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6.39	29.048
More than Number	Oct	14	9.86	17.81	19.45	e 49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28,953
Mor	March	13	9.15	13,52	16,45	32,30	1.786	83	.161	2.00	1,25	10.43	5.00	6.00	28,895
Av	erage	12	8.33	15,65	18,27	47.05	1.913	78	.294	3,36	2.10	9.58	4.10	3.99	28,935
98.	Sept	10	7.04	23.87	27.57	62,85	1.266	76	.422	4.72	2,95	8.73	2.90	1,20	28,946
vera aths	April	9	6.34	16.53	19.73	e 36,87	1.668	75	.169	2.08	f 1.30	10.38	5.70	6,60	28,941
L De	May	8	5.63	17.65	20,84	59.58	1,775	62	.323	2.77	2.36	9.32	5,80	4.90	28,864
sa than the Average Number of Deaths,	July	7	4.93	17.68	21.35	72.02	2.560	71	.539	6,00	3.75	7.93	1.80	1.50	28,907
Number	August	7	4.93	17.23	19.61	69,39	1.278	74	.527	5.75	3,59	8.09	2.80	1,10	28,924
Les	June	3	2.11	15,53	19.07	70,61	5,067	75	,559	6,07	3,79	7.89	3.50	2,34	28,878

^{*} Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated)

The range of the thermometer during the year 1874 was 108 degrees.

Note.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

Wet Bulb Thermometer not stated)

b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

Includes 10 Membranous Croup, and 2 Spasmodic Croup.

Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.

Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in minut that probably a less proportion of the deaths were returned for months in early part of the year.

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

Croup.—The number of deaths returned as having been caused by Croup in 1874 is 142, which is 1.14 per cent. of the deaths from all causes. The excess is of the males for each of the years 1870–1874. Nearly thirty per cent. of all the deaths returned from Croup in Michigan in 1874 were reported to have occurred in the two months of November and December. The smallest proportion occurred in June. As is the case in each year, a very large proportion of the decedents from Croup are under the age of five years, 84.51 per cent. of the deaths from this disease in 1874 being of persons under five years of age.

In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that more than an average number of deaths from Croup occurred in months when the temperature was lower than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than an average quantity of vapor inhaled, there was only one exception in 1874. that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K .- Croup. - Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

N	forths	CRO	ROM CP IN 874.	Mean	of thre	-Fahr.; se Daily , - at 7 M., and	Hus		OF A		-	c.,	Ozon Relat Maxim	TIVE.	Average.*
IN (MONTHS ORDER BY			Ave	rage			Per Cent.	or, in	or in	Vapor in 24	Vapor s in 24			'ahr.,
DEA GR	THS FROM CROUP, EATEST FIRST.	Number.	Per Cent. of Total,	Dally.	From Day to Day, -2 P. M. to 2 P. M.	Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per of Saturation,	Force or Pressure of Vapor, Inches.	Weight, in Grains, of Vapor Cubic Foot of Air.a	Weight, in Troy Ounces, of Inhaled by one person hours, b	Weight, in Tray Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.c	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahr., Average.*
Ye	ar, 1874	4142	100.00	15.65	18.27	47.05	22.959	78	.294	3,30	2.10	9.58	4.10	3.99	28,935
93	Nov	21	14.79	13.10	13.83	35,00	1.612	77	.145	2.06	1.29	10.39	3,80	4.50	28,937
reri	Dec	21	14.79	12,00	14.13	26,96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001
r De	Feb	15	10.56	12.32	14.07	25,51	1.550	89	.128	1.55	.97	10.71	5.53	6.10	28,928
an t	Jan	14	9.86	10.58	13, 13	27.70	3.528	88	.135	1.58	.99	10,69	5.10	6,39	29,048
More than the Average Number of Deaths,	Oct	14	9.86	17.81	19.45	e 49.10	.494	79	.282	3.15	1.97	9.71	3,32	3.01	28,953
Non	March	13	9.15	13.52	16,45	32,30	1.786	83	.161	2.00	1.25	10.43	5.00	6,00	28,895
Av	erage	12	8.33	15,65	18,27	47.05	1.913	78	.294	3,36	2.10	9.58	4.10	3,99	28,935
08.	Sept	10	7.04	23.87	27.57	62,85	1.266	76	,422	4.72	2,95	8.73	2,90	1.20	28,946
vera	April	9	6.34	16.53	19.73	e 36.87	1.668	75	.169	2.08	f 1.30	10.38	5.70	6,60	28,941
r De	May	8	5.63	17.65	20,84	59.58	1.775	62	.323	3.77	2.36	9,32	5,80	4.90	28,864
Less than the Average Number of Deaths.	July	7	4.93	17,68	21.35	72.02	2,560	71	.539	6.00	3.75	7.93	1.80	1.50	28,907
umb	August_	7	4.93	17.23	19.61	69,39	1.278	74	.527	5.75	3,59	8.09	2.80	1.10	28,924
Les	June	3	2.11	15,53	19.07	70.61	5.067	75	.559	6.07	3,79	7.89	3.50	2.34	28,878

The range of the thermometer during the year 1874 was 108 degrees. Note.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State

Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

* Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated)

b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

Includes 10 Membranous Croup, and 2 Spassmodic Croup.

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In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence, only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

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In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that more than an average number of deaths from Croup occurred in months when the temperature was lower than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than an average quantity of vapor inhaled, there was only one exception in 1874. that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K .- Croup. - Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

	fonths	CRO	ROM OUP IN 874.	Mean	of thre	-Fahr.; se Daily , - at 7 M., and	Hus		ONTHLY		100	c.,	OZON RELAT MAXIM	TEVE.	Average.*
IN (ORDER BY			Ave				Cent	Vapor, in	por in	Vapor in 24	of Vapor ges in 24 inhaled.c			Pahr.,-
DEA GR	THS FROM DROUP, REATEST FIRST.	Number.	Per Cent. of Total,	Daily.	From Day to Day,-2 P. M. to 2 P. M.	Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per of Saturation.	Force or Pressure of Vap	Weight, in Grains, of Vapor Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours, b	Weight, in Tray Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.c	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahr., Average.
Ye	ar, 1874	4142	100,00	15.65	18.27	47.05	22.959	78	.294	3,30	2.10	9.58	4.10	3.99	28,935
94	Nov	21	14.79	13.10	13.83	35,00	1.612	77	.145	2.06	1.29	10.39	3,80	4.50	28,937
vers aths	Dec	21	14.79	12,00	14.13	26,96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001
r De	Feb	15	10.56	12.32	14.07	25.51	1.550	89	.128	1.55	.97	10.71	5,53	6.10	28,928
er o	Jan	14	9,86	10.58	13, 13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6,39	29.048
More than the Average Number of Deaths,	Oct	14	9.86	17.81	19.45	e 49, 10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28,953
Mor	March	13	9.15	13.52	16,45	32,30	1.786	83	.161	2.00	1.25	10.43	5.00	6,00	28,895
Av	erage	12	8.33	15,65	18,27	47.05	1.913	78	.294	3.36	2.10	9,58	4.10	3,99	28,935
0 .	Sept	10	7.04	23.87	27,57	62,85	1.266	76	.422	4.72	2.95	8.73	2,90	1.20	28,946
aths,	April	9	6.34	16.53	19.73	e 36.87	1.668	75	.169	2.08	f 1.30	10.38	5.70	6,60	28,941
r De	May	8	5.63	17.65	20,84	59.58	1.775	62	.323	3.77	2,36	9.32	5,80	4.90	28,864
Less than the Average Number of Deaths.	July	7	4.93	17.68	21.35	72.02	2,560	71	.539	6.00	3.75	7.93	1.80	1.50	28,907
the	August_	7	4.93	17.23	19.61	69,39	1.278	74	.527	5.75	3.59	8.09	2.80	1.10	28,924
Les	June	3	2.11	15,53	19.07	70,61	5,067	75	.559	6.07	3,79	7,89	3.50	2,34	28,878

The range of the thermometer during the year 1874 was 108 degrees.

Note.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

* Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated)

b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

4 Includes 10 Membranous Croup, and 2 Spasmodic Croup.

Exceptions to proposition that more than an average number of deaths from Croup occurred in months whom the temperature was less than the average, and vice vera.

I Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice verage. It

in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

Michigan. The calculations of Range of Temperature and Weights of Vapor have been made in this State Department.

Croup and Diphtheria.—In combining the deaths from Croup and Diphtheria in one exhibit, as is done in Exhibit L, the meteorological conditions do not appear to be so closely related to the deaths as is shown in the exhibit of Croup and meteorological conditions. If we make the same propositions concerning Croup and Diphtheria combined as we did for Croup alone, in Exhibit K, we find that to the first proposition in Exhibit L there are five exceptions for Croup and Diphtheria, against two for Croup, and to the second proposition concerning Croup and Diphtheria, there are four exceptional months, against only one for Croup alone.

EXHIBIT L.—CROUP AND DIPHTHERIA.—Deaths in Michigan from Croup and Diphtheria, by Months, during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

	NTHS EDER BY	CROU	PAND HERIA.	Mean	of thr	- Fahr.; ee Daily -7 A.M., P. M.	Hun	Mon.	F ATMO	SPHERE VERAGE	, Етс.,— s.	OZONE,- ATIV MAXI =1	MUM	renheit,-
	BER OF			AVE	RAGE GE.		r Per	Vapor,	of Vapor	o per-	n Air rs, in ed.,		ri.	82° Fah
DIPH'	CROUP AND THERIA, SATEST CRST.	Number.	Per Cent. of Total.	Dally.	From Day to Day,— 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Cent. of Saturation.	Force or Pressure of in Inches.	Weight, in Grains, of Va in Cubic Foot of Air."	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, Vapor Exhaled from A Passages in 24 hours, excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night, -9 r. m. to 7 A.	Barometer Reduced to 32° Fahrenheit, Average.*
Year,	1874	355	100.00	15.65*	18,270	47.05°	78	,294	3.36	2.10	9.58	4.10	3.99	28,935
the .	Dec	54	15.21	12,00	14.13	26.96	85	.135	1.55	.97	10.71	4.00	4.20	29.001
No.	Sept	47	13.24	23,87	27.57	ъ 62,85	76	.422	4.72	€ 2.95	8.73	2,90	1.20	28,940
Average No of Deaths.	Nov	47	13.24	13.10	13.83	35.00	77	.145	2.06	1.29	10,39	3.80	4.50	28,937
re ver	Oct	37	10.42	17.81	19.45	ь 49.10	79	.282	3.15	1.97	9.71	3.32	3.01	28,953
Ave of	Jan	30	8.45	10.58	13.13	27.70	88	.135	1.58	.99	10,69	5.10	6.39	29,048
Avera	ge	29,6	8,33	15.65	18.27	47,05	78	.294	3,36	2.10	9.58	4.10	3,99	28,933
980	[Feb	26	7.32	12.32	14.07	ь 25.51	89	,128	1.55	c .97	10.71	5.53	6.10	28,928
era 8.	Aug	24	6.76	17,23	19,61	69.39	74	.527	5.75	3,59	8.09	2.80	1.10	28,924
Ath	March.	24	6.76	13.52	16.45	b 32,30	83	.161	2.00	¢ 1.25	10.43	5.00	6.00	28,895
Do	April	20	5.63	16,53	19.73	ь 36.87	75	.169	2,08	e 1.30	10,38	5.70	6,60	28,941
Less than the Average No. of Deaths.	May	19	5.35	17.65	20,84	59.58	62	.323	3.77	2.36	9,32	5.80	4.90	28,86
N.	July	16	4.51	17.68	21.35	72.02	71	.539	6,00	3.75	7,93	1.80	1.50	28,907
Le	June	11	3,10	15.53	19.07	70.61	75	.559	6.07	3.79	7,89	3,50	2.34	28,878

^{*} Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 278.)

* See foot-note to exhibit K, page 279.

b Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which the mean temperature was less than the average, and vice versa.

Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which there was less than the average quantity of vapor inhaled.

Diphtheria — For the year 1874 there were 213 deaths returned as having been caused by Diphtheria, which is 1.70 per cent. of the deaths from all causes. The per cent. of deaths from Diphtheria to deaths from all causes has increased each year since 1870, the per cent. for each year being: 1870, 1.12 per cent.; 1871, 1.24; 1872, 1.44; 1873, 1.52; 1874, 1.70. In 1874, the largest proportion of deaths from this disease occurred in September; and in only the last four months of the year was there as much as the monthly average proportion. Over eighty-five per cent. of the deaths from Diphtheria in 1874 were of persons under 10 years of age.

EXHIBIT M.—DIPHTHERIA.—Deaths from Diphtheria returned as having in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

	IONTHS	FROM	DIPH- ERIA, 374.	Mean	of thre	Fahr.; se Daily -7 A. M., P. M.	Humi			SPHEUF VERAGE	, etc.,—	OZONI RELAT MAXI = 1	MUM	hrenheit,
NU	MBER OF			Aver		7.11	r Per	Vapor,	Vapor r. a	Onnces, of by one per-	n Afr urs In ed. a		ж.	32° Fal
DIP GR	THS FROM HTHERIA, REATEST (UMBER FIRST.	Number.	Per Cent. of Total.	Daily.	From Day to Day,— 2 v. m. to 2 p. m.	Temperature.	Relative Humidity, or Cent. of Saturation.	Free or Pressure of in Inches.	Weight, in Grains, of V in Cubic Foot of Air.	Veight, in Troy Ounce Vapor Inhaled by on son in 24 hours.	Weight, in Troy Ounces, Vapor Exhaled from A Passages in 24 hours excess of vapor inhaled.	Лау, —7 А. м. to 2 Р. м.	Night, -9 r. M. to 7 A.	Barometer Reduced to 32° Fahrenhoit,
Year	September	213	100,00	15,65	18.27	47.05	78	,294	3.36	2.10	9.58	4.10	3,99	28,935
,		37	17.37	23,87	27.57	▶ 62,85	76	.422	4.72	e 2.95	8.73	2.90	1.20	28,946
An I	December.	33	15.49	12.00	14.13	26,96	85	.135	1.55	.97	10,71	4.00	4.20	29,001
Ded	November	26	12.21	13, 10	13,83	35.00	77	.145	2,06	1.29	10.39	3.80	4.50	28,937
Average No. of Deaths.	October	23	10,80	17.81	19.45	ь 49.10	79	.282	3.15	1.97	9.71	3,32	3.01	28,953
Ave	erage	18	8,33	15,65	18,27	47.05	78	,294	3,36	2,10	9,58	4,10	3,99	28,935
	August	17	7.98	17.23	19.61	69,39	74	.527	5.75	3.59	8.09	2.80	1.10	28,924
No.	January	16	7.51	10,58	13.13	ь 27.70	88	.135	1.58	0 ,99	10.69	5,10	6.39	29.048
rage.	February	11	5.17	12,32	14.07	b 25.51	89	.128	1,55	4 ,97	10.71	5.53	6.10	28,828
Ave	March	11	5.16	13.52	16.45	b 32.30	83	.161	2,00	c 1.25	10,43	5,00	6,00	28,895
the		11	5.16	16.53	19.73	b 36,87	75	.169	2.08	₹ 1.30	10.38	5,70	6,60	28,941
chan	May	11	5.16	17.65	20.84	59,58	62	.323	3.77	2.36	9.32	5,80	4.90	28,864
Less than the Average No. of Deaths.	July	9	4.23	17.68	21.35	72.02	71	.539	6,00	3.75	7.93	1,80	1.50	28,907
н	June	8	3 76	15.53	19.07	70,61	75	.559	6.07	3.79	7.89	3,50	2.34	28.878

and some coincident meteorological conditions. The proposition that more than an average number of deaths from Diphtheria occurred in months in

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

*See foot-note to Exhibit K, page 279.

*Exceptions to proposition that more than an average number of deaths occurred in months in which the temperature was less than the average, and vice versa.

*Exceptions to proposition that nore than an average number of deaths occurred in months in which less than an average quantity of vapor was inhaled, and vice versa.

Exhibit M states the number of deaths from Diphtheria in 1874, by months,

which the temperature was less than the average, and vice versa, holds in only six of the twelve months; and the proposition that more than an average proportion of deaths occurred in months in which less than an average quantity of vapor was inhaled, and vice versa, holds in only seven of the twelve months. By exhibit M, there seems to be a closer relation between Diphtheria and the day ozone than any other atmospheric condition, that relation being that Diphtheria prevails when there is less than the average ozone, and vice versa, only three of the twelve months being exceptional to this proposition. This relation, however, is quite likely to prove exceptional. The increase of deaths from this disease in September and throughout the last part of the year is so great as to indicate that the method of study employed in these exhibits is not so applicable to this disease as to some others, and to suggest the controlling influence of some method of spreading the disease not directly connected with meteorological conditions. It may be that the general opening of schools throughout the State about the first week in September was the cause of the remarkable increase of deaths from Diphtheria in that month and in succeeding months.

Cerebro-Spinal Meningitis.—The number of deaths returned as having been caused by this disease in 1874 was 33; in 1873, 145; in 1872, 79; in 1871, 7; in 1870, 1. One-third of the number of decedents from this disease in 1874 died in February and March.

EXHIBIT V.—CEREBRO-SPINAL MENINGITIS, ETc.—The Total Number of Deaths returned as having occurred from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, in Michigan, during the Year 1874, by Months and by Sex.

CAUSES		, 1874					1	HONTH	s, 1874	.				
OF DEATH.	SEX.	YEAB,	Jan.	Feb.	Mar.	April.	May.	June	July.	Aug.	Sept.	Oct	Nov.	Dec.
	Total	183	7	12	22	25	16	11	15	18	22	14	7	14
Total	Males	93	1	11	15	14	8	4	5	8	14	4	1	1
	Fema's	90	6	1	.7	11	8	7	10	10	8	10	6	(
	Total	33	1	4	7	2	2	2	2	9	3	2	2	•
Cerebro- spinal	Males	14		8	4		1	1	1	•••	2	1] ;
Meningitis	Fema's	19	1	1	8	2	1	1	1	2	1	1	2	;
	Total	6		1		1	1			1				1
Spotted Fever	Males	5		1		1	1							؛
1	Fema's	1		••••						1				
	Total	50	2	4	2	6	7	5	9	5	8	5		! !
Spinal Meningitis	Males	28	•••••	4	1	3	8	2	4	4	8	2		1
	Fema's	22	2		1	3	4	8	5	1		8		
ı	Total	5			1	ļ	1				2	1		ļ
Meningitis -	Males	3			1		1				1	 -		 -
	Fema's	2							•••••		1	1		
Spinal Fe-	Total	89	4	8	12	16	5	4	4	10	14	6	5	•
ver	Males	43	1	8	9	10	2	1		4	8	1	1	1
	Fema's	46	8		8	6	8	8	4	6	6	8	4	1

EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths returned as having occurred in Michigan from Cerebro-Spinal Meningitis, Spotted Fever. Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1874, and some Meteorological conditions existing at the same time. (See Note on pages 279-280.)

R BY NUM.	MENINGITIS, VER, SPINAL MENINGITIS, VER, GREAT. FIRST.	from bro- Men	caths Cere- spinal ingitis, 1874.	MEAN	RATURE OF 3 DA TIONS,-	FAHR.; ILY OB- AT 7 A. D 9 P. M.	mo:	SPHERE	OF AT.	RELA	TIVE.	32° Fahren-	in Inches.	RANGI BARO TER	ME-
	- M-		1	Averag	e Range,		or.	jo .	, of	94	to 7	d to	Snow,	2	
MONTHS IN ORDER	EBRO-SPINAL, MENIN SPOTTED FEVER, MENINGITIS, MENIN AND SPINAL FEVER, EST NUMBER PIRST.	Number.	Per Cent. of Total.	Daily.	From Day to Day,	Temperature,	Relative Humidity, or Per Ct. of Saturation.	Force or Pressure Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.a	Day, -7 A. M. t.	Night, -9 P. M.	Barometer Reduced to 32° Fabren- helt,—Average.*	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average Daily.
Year	r, 1874	183	100,00	15,65°	18.27°	47.05°	78	.294	3,36	4.10	3,99	28.935	22.959	2.069	.130
	(April	25	13.66	16.53°	19,73°	36.87°	75	* .169	f 2.08	g 5.70	g 6.60	b 28,941	1.668	1.082	.155
More than the Av.	March.	22	12,02	ь 13.52	c 16.45	32,30	d 83	+ .161	1 2.00	g 5.00	g 6.00	28,895	1.786	1.081	. 133
An t	Sept	22	12.02	23,87	27.57	1 62.85	76	.422	4.72	2.90	1.20	h 28.946	1.266	1.075	.079
o, of	Aug	18	9.84	17.23	19.61	1 69.39	74	.527	5.75	2,80	1.10	28,924	1.278	.503	.065
Mor	May.	16	8,74	17.65	20,84	1 59.58	62	.323	3.77	g 5,80	g 4.90	28.864	1.775	.785	.114
Ave	rage	15.3	8.33	15.65	18.27	47.05	78	.294	3,36	4.10	3,99	28.935	1.913	1.018	. 130
ė	July	15	8.20	b 17.68	c 21.35	72.02	a 71	• .539	f 6.00	g 1.80	g 1.50	ь 28,907	2,560	.465	.078
o Nu	Oct	14	7.65	b 17.81	c 19.45	49, 10	79	.282	3.15	€ 3.32	g 3.01	28,953	.494	.995	.141
erag atbs.	Dec	14	7.65	12,00	14.13	1 26.96	85	.135	1.55	g 4.00	4,20	29,001	.375	1.274	.199
Less than the average Num- ber of Deaths.	Feb	12	6.56	12.32	14.07	1 25.51	89	.128	1,55	5.53	6,10	h 28,928	1.550	1.387	.171
an th	June	11	6.01	15.53	e 19.07	70.61	a 75	* .559	f 6,07	g 3.50	g 2.34	h 28,878	5.067	,696	180.
s tha	Jan	7	3,83	10,58	13.13	1 27.70	88	.135	1.58	5.10	6,39	29.048	3,528	1.159	.169
Les	Nov	7	3.83	13,10	13,83	35.00	a 77	.145	2.06	g 3.80	4.50	28,937	1.612	1.712	.175

Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

Exhibits V. and 15 combine, by months, certain diseases, the same as were combined in the corresponding exhibits for 1873. Exhibit 15 enables one to study the influence of meteorological conditions upon the deaths from this group of diseases.

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)
† See foot note b, page 274.
* See foot note to Exhibit K, page 279.

• Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Range of temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Relative Humidity was less than the average in months in which more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Force of Vapor was greater than the average in months in which more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

• Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was less than the average in months in which more than the average in months in which more than the average number of deaths occurred, and vice versa.

i Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT U.—Congestive Chills.—Deaths returned as having occurred in Michigan from Congestive Chills, by Months, during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

	Con	DEATHS FROM CONGESTIVE CHILLS, 1874.	TEMPER MEAN SERVA M., 2 P	EMPERATURE,—FAHE, MEAN OF 3 DAILY OB- SERVATIONS,—AT 7 A. M., 2 P. M., AND 9 P. M.	AT 7 A.	Ном	MONT	HUMIDITY OF ATMOSPHERE, BTC.,— MONTHLY AVERAGES.	HERE, E.	1	OZONE, - RELA- TIVE. MAX- IMUM=10.	- KRLA- Max- =10.		Inches.	KANGE OF BAROMETER.	OE STER.
MONTHS IN ORDER BY NU	UM.		RAN	AVERAGE RANGE.			-uA 1	edit.	ouo se	ni stu	ъ. ж.	ж.ч.		ni ,won	•	
GESTIVE CHILLS, GREAT EST NUMBER FIRST.	Уптрег.	Per Cent. of Total.	Dolly.	From Day to Day,- 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, of Cent. of Saturation	Force or Pressure o	Weight, in Grains, of por in Cubic Foot of	Weight, in Troy or of Vapor Inhaled I person in 24 hours.	Weight, in Troy oun Vapor Exhaled fro Passages in 24 hos excess of vapor inh	Day,— 7 A. M. to 2	Night,—9 P. M. to 7	Barometer Reduce	Rain and Melted S:	Monthly, and Year	Arerage Daily.
Year, 1874.	22	100.00	15.65	18.27	47.05	22	106	3,36	2.10	9.58	4.10	3.90	28.935	22.950	6003	.130
CJuly	1 14	17.95	17.68	21.35	72.02	11	.539	6.00	3.75	7.93	1.80	1.50	g 28.907	2.560	h.465	1.078
_	13	16.67	23.87	27.57	62.85	76	493	4.79	2.95	8.73	8:	1.30	28.946	1.266	1.075	670.1
	6	11,54	17.23	19.61	69.30	7.	.537	5.75	3.59	8.00	983	1.10	r 23.924	1.278	ь .503	- 39.
April	90	10.26	16.53	19.73	d 36.87	22	.169	e 2.08	1.30	10.38	15.70	r 6.60	28.911	1.668	1.082	.153
_	90	10.26	b 13,10	r 13.83	d 35,00	11	.145	90% -	1.39	10.39	3.80	f 4.50 .	28.937	1.612	1.712	.175
$\overline{}$	7	8.97	17.65	20.84	59,58	62	.333	5.77	2.36	9.33	. 15.80	r 4.90	g 28.364	1.775	ь.785	. .
Average	-	8.33	15,65	18.27	47.05	78	105	3.36	2.10	9.58	4.10	3.09	28.935	1.913	1.018	3 .
January	10	6.41	10.58	13,13	97.70	88	.135	1.58	60"	10.00	5.10	6.30	8.20.048	3.59%	h 1.159	.169
	10	6,41	18.71 9	c 19.45	d 49.10	62	282	3,15	1.97	9.71	13.32	f 3.01	£ 28.953	767	.993	Ξ.
March	*	5.13	13.52	16.45	32.30	33	191.	200	1.25	10.43	2.00	6.00	28.893	1.786	h 1.081	- 33:
December	53	25.52	12.00	14.13	26.96	82	.133	1.55	76,	10.71	7.4.00	4.20	£20.001	375	h 1.274	- 193
	1	1.28	19.32	14.07	25,51	69	.193	1.55	76.	10.71	5,53	6.10	28.923	1.550	1, 1.387	1.171
June	-	1.28	15.53	c 19.07	4 70.61	22	.659	- 6.07	3,79	7.89	13.50	188	878.82	2.067	88.	\$

. Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

| See foot-note b, page 274.

See foot note to Exhibit K, page 279.

> Exceptions to the proposition that the daily Range of temperature was greafer than the average in months when more than the average number of deaths

e Exceptions to the proposition that the Range of temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

4 Exceptions to the proposition that the temperature was higher than the average in months when more than the average number of deaths occurred, and

· Exceptions to the proposition that the Absolute Humidity was greater than the average in months in which more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versor.

s Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths

1 Exceptions to the proposition that the Mean Daily Range of Barometer was greater than the average in months when more than the average number of

deaths occurred, and vice wrsa.

Cerebro-Spinal Meningilis—(Continued).

The proposition that a greater than average daily range of temperature is attended with a greater than average number of deaths from the diseases tabulated in Exhibit 15 holds true in nine out of twelve months, and the same proposition therefore, become a rule in 1874, but were not in 1873. In 1874, the proposition that the temperature was lower than the average in months when more than the average number of deaths occurred holds true in only five months, while in 1873 it holds true in eight months. The remarkable decrease in the deaths from the diseases grouped in Exhibit 15 in 1874, compared with 1873, is worthy of notice, as when taken in connection with the fact of the higher temperature in 1874, it tends The diseases combined in Exhibit 15 seem to have sustained the closest relation, in 1874, to the daily range of temperature. concerning the range from day to day holds true in eight out of twelve months in 1874; but in 1873 the former proposito confirm the opinion already formed and commented upon on pages 260-2 in the Vital Statistics of Michigan, 1873, tion held true in only five out of twelve months, and the latter in only four out of twelve months. These propositions, respecting their causation by excessive cold.

great range of temperature, warm weather, and moisture of atmosphere seem to have been attended with a large mortality from Congestive Chills in 1874. The relation between these was closer in 1874 than in 1873; and in 1873 the relation Congestive Chills and Intermittent Fever. - The number of deaths returned as having been caused by Congestive Chills in 1874 is 78,—a decrease of 24 from the number returned for 1873. The largest number occurred in July, the smallest in between Congestive Chills and atmospheric pressure was closer than between Congestive Chills and any other atmospheric February and June. In the two months of July and September, over one-third of the deaths from this disease occurred. Exhibit U facilitates the study of Congestive Chills and meteorological conditions, by months.

	DEATE INTER	DEATES FROM INTERMITTENT FEVER, 1874.	MEAN COBSERV	ATIONS,	TEMPERATURE, - FABR.; MEAN OF THREE DAILY OBSERVATIONS, -7 A. M.,		HUMIDITY OF MONTH	TY OF ATMOSPHERE, MONTHLY AVERAGES,		ETC.,-	OZONE,- RELATIVE.	E,-	-,.1da	,eod.	RANGE OF	OF TER.
MONTHS IN ORDER BY			er. M.	ANDOF			1		1	1			a oz	ouI		1
			Average	Range.			-нД	-aV		ni 8	'W	·ĸ ·		uj 's		
INTERMITTENT FEVER, GREATEST NUMBER FIRST.	Namber.	Per Cent. of Total.	Daily.	From Day to Day,- 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Cent. of Saturation	Force or Pressure of por, in Inches.	Weight, in Grains, of por in Cubic Foot of A	Weight, in Troy Oun of Vapor Inhaled by person in 24 hours, a	Weight, in Troy Onnee Vapor Exhaled trom Passages in 24 bour excess of vapor inhale	Day,—7 A. M. to 2 P.	A T of .w. 4 6-,tdgiN	t beduced Tetamoras	Rain and Melted Snov	Monthly, and Year.	Average Dally.
Year, 1874	62	100.00	15.65	18.27	47.05	25	165	3.36	2.10	9.58	4.10	3 90	28,935	22 959	2.069	.130
September	13	20,97	23.87	27.57	62.86	92	.455	4.72	2.95	8,73	2.90	1.20	28.946	1.266	1.075	1.079
October	10	16.13	17.81	19.45	49.10	22	282	e 3.15	1.97	9.71	3.32	3.01	28,953	494	ь .995	.14
July	-	11.29	17.68	21,35	72.02	11	.639	6.00	3.75	7.93	1.80	1,50	# 28.907	2.560	у .465	1,078
August	1	11,29	17.23	19.61	69.39	7.4	.527	5.75	3.59	8.00	2.80	1.10	g 28.924	1.278	р .503	1,065
Мау	9	9,68	17.65	80.08	59.58	62	.323	3.77	2.36	9,32	15.80	r 4.90	k 28.864	1.775	м .785	1.11
Average	10	8.33	15.65	18.27	47.05	18	.294	3.36	2,10	9.58	4.10	3.90	28.935	1.913	1.018	.130
January	*	6.45	10.58	13.13	27.70	88	.135	1.58	.99	10.69	5.10	6.39	g 29.048	3,528	H T 159	1,169
April	*	6.45	b 16.53	e 19,73	36.87	75	.169	2.08	1.30	10.38	5.70	6,60	g 28.941	1.668	1 1.082	1.155
November	*	6.45	13.10	13,83	35.00	1	.145	2.06	1.29	10.39	r 3.80	4.50	g 28,937	1.612	h 1.712	1.175
March	60	4.84	13.52	16.45	32,30	8	.161	2.00	1.25	10.43	2.00	6.00	28.895	1.786	b 1.081	1,133
June	61	3.23	15.53	c 19.07	4 70.61	73	.639	* 6.07	3,79	7.89	r 3.50	12.34	28,873	5.067	969*	.08
February	-	1.61	12.32	14.07	25.51	89	.128	1.55	76.	10.71	5.53	6.10	28.928	1.550	h 1.387	1.17
December	-	1.61	19.00	14.13	96.96	15	126	1 85	07	10.71	0000	1 00	- 00 001	0.40	4 4 000	100

- · Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)
- † See foot-note b, page 274.
- . See foot-note to Exhibit K, page 279.

> Exceptions to the proposition that the daily Range of temperature was greater than the average in months in which more than the average number of deaths occurred, and wos versa.

- Exceptions to the proposition that the Range of temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.
- Exception to the proposition that the temperature was higher than the average in months when more than the average number of deaths occurred, and
- · Exceptions to the proposition that the Absolute Humidity was greater than the average in months whon more than the average number of deaths occurrred, and vice versa.

f Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice verso. s Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa. b Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa. 'Exceptions to the proposition that the Mean Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

disease, seem, in general, to be similarly modified by the same meteorological conditions. In 1874, the propositions made in the foot-notes b, c, d, and c, respectively, to Exhibits U and W, concerning the prevalence of Congestive Chills and Internumber of deaths returned as having been caused by Intermittent Fever in 1874 is 62, which is a decrease of 11 from the number returned for 1873. There is even a closer relation between the prevalence of this disease and the range of temperature (both daily and from day to day), warm weather, and a moist atmosphere in 1874 than between Congestive Chills and these atmospheric conditions, respectively. The deaths returned under these two names for what is believed to be one mittent Fever during great range of thermometer, warm weather, and in a moist atmosphere each becomes a rule with very Intermittent Fever seems to be modified by the same atmospheric conditions which modify Congestive Chills.

· Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

† See foot-note b, page 274.

See foot-note to Exhibit K, page 279.

> Exceptions to the proposition that the Dally Range of temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa. . Exceptions to the proposition that the Range of temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa. d Exceptions to the proposition that the Temperature was Migher than the average in months when more than the average number of deaths occurred, and vice versa. · Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa. Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa. s Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa. a Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa. Exceptions to the proposition that the Mean Daily Range of Barometer was greader than the average in months when more than the average number of deaths occurred, and vice versa. Typhoid Fever.—The returns of deaths for 1874 show that 4.88 per cent. of all decedents in 1874 died from typhoid fever. This is a larger per cent. than is shown for any previous year except 1870, the order of the several years, those having the greatest per cent. first, being: 1870, 5.33 per cent.; 1874, 4.88; 1873, 4.75; 1872, 4.64; 1871, 3.67. Over one-fifth of all decedents from this disease in 1874 died in October, and over three-fifths of the entire number for the year died during the last four months of the year. Of the different ages, the largest number of deaths from typhoid fever were of persons between the ages of fifteen and twenty years, the next largest number being of persons between the ages of twenty and twenty-five years. Typhoid fever is most prevalent, or proves most fatal, during the decade of life between the ages of fifteen and twenty-five years, nearly three-tenths of the decedents at all ages from this disease in 1874 having been of this period of life. It should be remembered, however, that the inhabitants at such ages outnumber those in any decade of ages older than that.

Exhibit X. enables one to study the relation of typhoid fever in Michigan in 1874 to the coincident meteorological conditions. In 1874, deaths from this disease seem to have been coincident more particularly with a small amount of ozone in the air, and with a high atmospheric pressure, as indicated by the barometer. To the proposition that the ozone was less than the average in months in which more than the average number of deaths occurred, and vice versa, there were three exceptions for the day ozone, and five for the night ozone; and there were only two exceptions to the proposition that a greater than average barometric pressure is attended with more than the average number of deaths from typhoid fever, and vice versa. An examination of the years 1872, 1873, and 1874 gives evidence of the truth of this proposition.

A great range of the atmospheric pressure seems also to be coincident with increased mortality from typhoid fever. To the proposition that the monthly range of barometer was greater than the average when more than the average number of deaths from typhoid fever occurred, and vice versa, there were five exceptions in 1874, and four in 1873. A comparison of the years 1873 and 1874 gives evidence of the truth of this proposition. The range of the barometer for the year 1873 was 1.307, and the proportion of deaths from typhoid fever was 4.75 per cent.; the range of the barometer during the year 1874 was 2.069, and the proportion of deaths from this disease was 4.88 per cent.; that is, an increased range of barometer in 1874 over 1873 was attended with an increased proportion of deaths from typhoid fever.

Diagram No. 8, page 272, indicates graphically the atmospheric pressure, by months, for the years 1871, 1872, 1873, and 1874, and the average for ten years ending with 1874. In each month except August and September, the line indicating the atmospheric pressure for 1874 is higher than the line indicating the average for ten years; and in August they are nearly the same; and by referring to Exhibit 12, page 273, it may be seen that the annual average for 1874 is higher than for any previous year. By reference to Table XX. of deaths, in the Reports for the several years, and the remarks on typhoid fever at the top of this page, it may be seen that the per cent. of deaths from typhoid fever to deaths from all causes was greater in 1874 than in any year except 1870, which suggests the influence of the pressure of the atmosphere upon the mortality from typhoid fever, and corroborates the teaching of Exhibit X., pages 288-9.

Diarrhea.—Of all the deaths in Michigan in 1874, 3.04 per cent. were caused by Diarrhea. This proportion is larger than in 1871 or 1873, but smaller than in 1870 or 1872, the order of the years, greatest proportion first, being: 1870, 3.51 per cent.; 1872, 3.05; 1874, 3.04; 1873, 2.50; 1871, 1.98. The largest number of deaths from diarrhea occurred in August, the smallest in February; and in August and September, 50.26 per cent. of the deaths from this disease occurred. Of all decedents from this disease in 1874, 91.84 per cent. were under five years of age.

Table XXI., page 295, is similar to the corresponding table for 1873, and shows, by geographical divisions of Michigan, the number of deaths from diarrhea and from dysentery, and the per cent. of deaths from each to deaths from all causes. From diarrhea the largest per cent. appears for the north-

eastern division, the smallest for the southern central.

If we divide the lower peninsula of the State into three vertical divisions, by combining the ten divisions already used, thus forming what we may term the western, central, and eastern portions, and calculate the average proportion of deaths from diarrhea in each, we find that in the western portion of the lower peninsula the average proportion of deaths from diarrhea in 1874 was 2.53 per cent., in the central portion it was 1.94 per cent., and in the eastern, 10.10 per cent. It appears, therefore, that the danger from this disease is least from north to south through the central portion of the lower peninsula, which has very little lake coast, and that the danger is greatest along the eastern portion, which has a very large lake and river coast. The water-coast of the upper peninsula is greater than of either of the three divisions, but the proportion of deaths from diarrhea in the upper peninsula is less than in the eastern division; it also appears that the excess of water-coast in the eastern division over that in the western division is not so great as the excess of the proportion of deaths from diarrhea in the eastern division over the proportion in the western. These two facts are evidence that water-coast alone is not the only condition which influences the prevalence of diarrhea. From considerations stated on page 294, it seems probable that the cities of Detroit, Flint, and the Saginaws are the causes of the excess of deaths from diarrhea in that part of the State, but none of these cities have sufficiently accurate and systematic mortality statistics to make it possible to study the subject by such means. The nature of the soil may have some influence upon this disease, either direct, on account of its chemical constituents, or indirect as relating to water-supply; and it is to be hoped that the government will soon, by means of a sanitary survey of the State, furnish information on this important subject which shall be available for students of vital statistics. This subject may be further studied in Table XXV., following.

Comments on Exhibit 16 may be seen on page 293.

EXHIBIT 16.—DIARRHEA.—Deaths in Michigan from Diarrhea in July and August of each of the Years 1869-1874, the Average for the Six Years ending with 1874, and some Meteorological conditions existing at the same time, at the Agricultural College, near the center of the thicklysettled part of the State.

	ВЕАТИЯ РВОИ ВІАВНИЕА .	Mean servat	of 3 Da ions,— 7 , and 9	lly Ob-	hes.	MOS	PHERE, NTHI Y ERAGE	Av-			Fahren-		E OF
JULY AND	DEA		RAGE NGE.		in Inc	Per .	Vapor,	of Vapor,			to 32°		
AUGUST OF EACH OF THE YEARS 1869-1874.	Number.	Daily.	From Day to Day, -2 P. M. to 2 P. M.	Temperature.	Rain and Melted Snow, in Inches.	Relative Humidity, or Cent. of Saturation.	Force or Pressure of V.	Weight, in Grains, of Voir in Cubic Foot of Air.	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Barometer Reduced to heit,-Average.	Monthly.	Average Dally.
(July	63	16.77	16.73	72.18	4.656	77	.604	6,64	2,09	2,28	28,886	.635	.081
Average { August .	107	17.65	16.56	70.33	2.843	79	.588	6,45	2.44	1.58	28,931	,575	.076
July August .	37 94	■15.20 18.00			s 5,768 h 4.853	79 75	.590	6.49 k 6.56			28,844 n 28,968	.624	
1870 { July	88		¢19.32			79	.659	7.19	•••••	•••••	28,836	.490	
(August.	123 44	b18.22 18.61	4 19.06 21.48	70.60	4.530 3.100	81 77	.594	6.54	******		n 28,890 28,891	1.371	
1871	71	18.55		71.19	1.420	78	.586	6,43			28,907	.782	
(July	80	16.45	c 19.55		g 3.360	77	.671	7.33	.88	2,28	28,924	.404	.081
1872 { August .	145	15.32	d 17.61	71.22	4.180	83	.650	7. 15	.98	.99	28.967	,372	.060
1873 July	65	15.35	18.68	• 70.82	5.124	78	.588	1 6.45	3,59	3.06	28,914	.453	,083
(August .	105	18.55	21.32	69,49	.796	81	.570	6,29	3,55	2,65	28.927	.574	.084
1874 July	61		21.35	'	1	71	.539	6.00	130	m 1.50	28,907	,465	.078
Av. for 5 Yrs. (to compare July with Range from Day to Day)	68 110		19.61	69.39	1.278	74		5.75	2,80	m 1.10	28.924		
Av.forYra 1872 July1874 (to com. pare with Ozone)	98 118	1				***							

^{*}Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)
† See foot-note b, page 274.
‡ See foot-note to Exhibit K, page 279.
* Exceptions to the proposition that the Average Daily Range of temperature was less than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice versa.
* Exceptions to the proposition that the Average Daily Range of temperature was less than the average for August in months of August when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Average Range of temperature from day to day was less than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Average Range of temperature from day to day was less

THE CAUSES OF DIARRHEA.

It has been found that, in a general way, there is a very marked relation of the deaths from diarrhea to the temperature, when the subject is studied for any single year; the deaths occur in the greatest proportion during or immediately succeeding the hottest month in the year. If the evidence stopped here it might still be believed that the relation of the weather to the deaths from diarrhea was only an incidental and not a causative relation, the deaths being attributed to the fruit, green corn, etc., so plentiful at that season of the year, or to some other supposed cause; but the evidence in Exhibit 16, page 292, showing the relations of meteorological conditions to the deaths from diarrhea in the months of July and August for the six years, 1869-1874, seems to the compiler to be very strong, and to lead to the belief that, in Michigan at least, the deuths from diarrhea are very closely related to the meteorological conditions, and that there is a more or less direct causative relation between high temperature and deaths from diarrhea. By referring to Exhibit 16, it will be seen that there is only one very slight exception to the proposition that the average temperature was higher than the average for July in the months of July when more than the average number of deaths from diarrhea occurred, and the average temperature was lower than the average for July in the months of July when less than the average deaths from diarrhea occurred. The only exception to this proposition was in July, 1873, and was very slight indeed, and is easily accounted for by the fact that the average temperature for June, 1873, was higher than the average June temperature in this State, and especially high near the close of the month, and it is evident that the deaths from diarrhea may follow their causes in such a manner that a high temperature in one month is followed by an increased death-rate from diarrhea in the next following month.

That the effects lag behind the high temperature, or are due to reactions from it, also seems to explain every one of the exceptions, noted in the same column, relating to the month of August. In 1869 the average temperature for August was very slightly higher than the average August temperature for

than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

• Exceptions to the proposition that the Average Temperature was higher than the average for July in months of July when *more* than the average number of deaths from Diarrhea occurred, and

vice versa.

I Exceptions to the proposition that the Average Temperature was higher than the average for August in months of August when more than the average number of deaths from Diarrhea occurred, and vice versa.

and vice versa.

g Exceptions to the proposition that the amount of rain and melted snow was greater than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice versa.

h Exceptions to the proposition that the amount of rain and melted snow was greater than the average for August in months of August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Average Relative Humidity was greater than the average for August in months of August when more than the average number of deaths from Diarrhea oc-

curred, and vice versa.

J Exceptions to the proposition that the Absolute Humidity was greater than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice

versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average for August in months of August when more than the average number of deaths from Diarrhea occurred,

and vice versu.

1 Exception to the proposition that the Average Day Ozone was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea

occurred, and vice versa.

**Exception to the proposition that the Average Night Ozone was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versu.

B Exceptions to the proposition that the Atmospheric Pressure was more than the average for Au

B Exceptions to the proposition that the Atmospheric Pressure was more than the average for Au

gust in months of August when more than the average number of deaths from Diarrhea occurred, and vice versa.

the six years 1869-1874, and the deaths in that August from diarrhea were less than the average number for August in the six years, but the average temperature in July, 1869, was considerably less than the average, and it is reasonable to believe that the favorable temperature in July overbalanced the slightly unfavorable temperature in August, and thus resulted a less than average number of deaths from diarrhea in August, 1869. In 1870 precisely the reverse of these conditions prevailed, and the unusual number of deaths from diarrhea in August, 1870, was probably due to the very high temperature in July. The only other exception occurred in 1871, and it is explained in the same manner as the one in the year 1869.

Taking into consideration all the facts we can learn concerning the conditions favorable to the occurrence of diarrhea, it seems certain that there are other causes than high temperature, notwithstanding the very close relations between high temperature and this disease. One important fact in this connection is the apparent greater prevalence of this disease in cities than in rural districts. Though it is possible this may be due to a higher body temperature in the city than in the country, it seems probable that it is somewhat connected with the comparative impurity of the air of cities and the absence of ozone. There is evidence that diarrhea may sometimes be caused by inhaling foul odors, and there are other meteorological conditions so closely connected with temperature that it cannot yet be assumed that a disease which, like diarrhea, is coincident with a high temperature, is entirely caused by the high tempera-When the temperature is high the ozone is generally deficient, and the wind is less than at other seasons of the year. Upon these two elements, wind and ozone, depends, in great degree, the purity of the air. In cities the air is constantly receiving foul emanations, which should be as constantly replaced by fresh air; but in the absence of wind to change the air, and of ozone to destroy the decomposing organic material in the air, the atmosphere in a city is much more rapidly rendered dangerous to health than is that in the country.

Dysentery.—The number of deaths returned as having been caused by dysentery in Michigan in 1874 was 304, which is 2.43 per cent. of the deaths from all causes. The order of the years 1870–1874, those having the greatest proportion of deaths first, is identical with the order for diarrhea, as follows: 1870, 3.46 per cent.; 1872, 3.41; 1874, 2.43; 1873, 2.20; 1871, 1.77. The largest proportion occurred in August, as was the case from diarrhea, 64.47 per cent. of all the deaths from this disease occurring in August and September, and 78.62 per cent. of the decedents from this disease were under five years or age.

The largest proportion of deaths from dysentery was returned for the north-western division, and from the northern division there were none returned. If we divide the lower peninsula into three vertical divisions, as we suggested in our comments on diarrhea,—western, central, and eastern,—we find that the relation of the three divisions to each other, as regards proportion of deaths from dysentery, is similar to their relation as regards proportion of deaths from diarrhea,—western portion, 4.80 per cent. of deaths from dysentery; central, 2.48 per cent.; and eastern, 4.94 per cent.

TABLE XXI.—DIARRHEA AND DYSENTERY.—Exhibiting, for the State and for eleven Geographical Divisions of the State, during the year 1874, the Number of Deaths returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.

	DIARRE Acute an	EA, 1874. D CHRONIC.	DYSENTEI ACUTE AND	
STATE AND GEOGRAPHICAL DIVISIONS.	Number of Deaths,	Per Cent, to Deaths from All Causes, by Geographi- cal Divis- ions.	Number of Deaths.	Per Cent. to Deaths from All Causes, by Geograph- ical Divis- ions.
STATE	390	8.04	804	2.43
Upper-Peninsular	8 1	4.78	23	8.51
Nothwestern	5	2.42	19	9.18
Northern	8	2.44		
Northeastern	16	21.83	8	4.00
Western	49	8.72	50	8.80
Northern-Central	6	8.23	8	4.30
Bay and Eastern	66	8.61	41	2.24
Central	94	1.16	64	3.09
Southwestern	15	1.34	16	1.43
Southern-Central	21	.94	57	2.54
Southeastern	144	5,36	23	8.57

[·] For counties included in each Division, see page 181.

Comments on this table may be seen on page 291.

Scarlet Fever.—During the year 1874, 440 deaths occurred in Michigan from scarlet fever, according to the returns. This is 3.52 per cent. of deaths from all causes, and is the fourth cause in order of greatest proportional mortality in this State in 1874, although it is fifth in order in Table XVIII. and Exhibit T, pages 258 and 259, owing to the fact that the number of still-births is greater than the number of deaths from scarlet fever. The largest proportion occurred in April, the smallest in July; and of the decedents at different ages, 63.41 per cent. were under five years old.

Exhibit Y furnishes an opportunity of studying the relation of scarlet fever to the coincident meteorological conditions. Two or three atmospheric conditions seem to be related to this disease,—temperature, vapor inhaled, and atmospheric ozone. To the proposition that more than an average number of deaths occurred in months when the temperature was lower than the average, and vice versa, there were four exceptions in 1874; and to the proposition that more than an average number of deaths occurred in months when less than an average quantity of vapor was inhaled, and vice versa, there were five exceptions in 1874. In 1873, there was only one exception to the former proposition, and only two to the latter; in 1872 there were four exceptions to each proposition. If these conditions are, as the evidence indicates, in some degree causative of scarlet fever, it seems probable that they are so partly because in

some way they favor the introduction of the specific contagium of the disease into the human body. It has been found that deaths from bronchitis and from some other diseases of the air passages are more than usually frequent when the atmosphere is cold and dry, and there is an excess of ozone. There seem to be good reasons for the belief that unintentional inoculation of the throat and air passages with the contagium of scarlet fever is more likely to occur when the throat and air passages are irritated as they are believed to be sometimes by cold, dry, and highly ozonized air.

EXHIBIT Y .- SCARLET FEVER. Deaths from Scarlet Fever returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

2	IONTHS	FROM	SCAR- FEVER, 874.	Obser	of thr vations, ., and 9	-7 A. M.,	Ним			OSPHER!	E, ETC.,—	MAX	NE,— ATIVE, IMUM 10.	Fahrenheit,
	ORDER BY			Ave			r Per	Vapor,	Vapor	es, of e per-	es, of a Air urs in ed.		×.	32° Fab
SCARI	THS FROM LET FEVER, REATEST FIRST.	Number.	Per Cent, of Total.	Daily.	From Day to Day,— 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Cent, of Saturation.	Force or Pressure of V	n Grains, of die Foot of Ai	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, Vapor Exhaled from Passages in 24 hours excess of vapor inhaled.	Day,—7 A. м. to 2 г. ж.	Night, -9 P. M. to 7 A.	Barometer Reduced to 32° Average.*
Yea	r, 1874	b440	100.00	15,65	18,27	47.05	78	.294	3.36	2,10	9.58	4.10	3,99	28,935
pe .	April	71	16.14	16.53	19.73	36,87	75	.169	2.08	1.30	10,38	5.70	6.60	28,941
the N	March	55	12.50	13.52	16.45	32,30	83	.161	2.00	1.25	10,43	5.00	6.00	28,895
erag Des	February.	52	11.82	12.32	14,07	25.51	89	,128	1.55	.97	10,71	5.53	6.10	28,928
More than the Average No. of Deaths.	May	46	10.45	17.65	20.84	c 59.58	62	,323	3.77	a 2,36	9,32	5.80	4.90	28,864
Ave	orage	37	8.33	15.65	18,27	47.05	78	.294	3,36	2.10	9,58	4.10	3.99	28,935
	January	34	7,73	10,58	13.13	c 27.70	88	.135	1.58	d ,99	10,69	e 5,10	e 6.39	29,048
No.	October	31	7.04	17.81	19.45	49, 10	79	,282	3.15	d 1.97	9.71	3,32	3.01	28.953
rage.	June	30	6.82	15.53	19,07	70.61	75	.559	6.07	3,79	7.89	3.50	2.34	28.878
Ave	September	29	6.59	23.87	27.57	62,85	76	.422	4.72	2.95	8,73	2.90	1,20	28,946
Less than the Average No. of Deaths.	December.	28	6.36	12.00	14.13	c 26,96	85	.135	1.55	4 .97	10.71	4.00	e 4.20	29.001
than	August	27	6.14	17.23	19.61	69,39	74	.527	5.75	3.59	8.09	2,80	1.10	28,924
1088	November	19	4.32	13.10	13.83	c 35.00	77	.145	2.06	d 1.29	10,39	3.80	e 4.50	28,937
-	July	18	4.09	17.68	21,35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28,907

^{*} Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

Consumption.—This disease continues to head the list of principal causes of death in Michigan. In 1874, 1,392 deaths are reported to have been caused

See foot note to Exhibit K, page 279.
bluckes 9 deaths from Scarlet Rash.

[•] Exceptions to proposition that more than an average number of deaths occurred in months in which the temperature was less than the average, and vice versa.

4 Exceptions to proposition that more than an average number of deaths occurred in months in which less than an average quantity of vapor was inhaled, and vice versa.

• Exceptions to the proposition that more than the average number of deaths occurred in months in which the Ozone was more abundant than the average, and vice versa.

by consumption, which is 11.14 per cent. of deaths from all causes. The mortality from this disease is quite uniform in this State from year to year, the number in each year being: 1872, 1,467; 1870, 1,451; 1873, 1,447; 1874, 1,392; 1871, 1,303; 1869, 1,233. The proportion which the deaths from consumption bear to all deaths, however, seems to have been decreasing from 1868 to 1874, the order of the years, those having the greatest proportion first, being: 1869, 13.48 per cent.; 1870, 13.47; 1871, 13.39; 1874, 11.14; 1872, 10.96; 1873, 10.15. The largest proportion in 1874 was returned for December, the smallest for January; but it should be borne in mind that probably a larger proportion of the deaths which occur is returned for the last than for the first part of the year. There is an excess of females in each year. The decedents from this disease in 1874 between the ages of twenty and twenty-five years outnumbered those of any other five-year period of age; but it should be remembered that the inhabitants aged twenty to twenty-five years outnumber those in any period of age older than that. This seems to be one reason why the deaths are so numerous at those ages. Judging from the vital statistics in this State, the very general belief that the danger from consumption is less after the age of forty years is very far from the truth, the fact being that the per cent. of deaths to inhabitants increases rapidly after the age of fifty years. The reader who desires to study this subject further is respectfully referred to pages 314 and 315 of the Vital Statistics of Michigan, 1870, and especially to the diagram facing page 314, wherein may be seen the relation of deaths of persons of each sex at each period of age to the inhabitants of the same sex

Exhibit N is made for the purpose of showing, by sex, the proportional number of deaths from consumption, in 1874, in each month if equalized to uniform length. It also shows, by sex, the average monthly number of deaths from this disease.

EXHIBIT N.—Consumption.—By Sex, the Number of Deaths returned as having occurred in Michigan from Consumption during the Year 1874, by Months Equalized to Uniform length of 30.44 days each; also the average Number per Month. (Deaths in Unknown Month and of Persons of Unknown Sex Excluded.)

			DEA	THS P	ROM Co	NSUMP	I KOIT	n 1874,	BY M	ONTHS	or Eq	DAL LE	NOTH.	
SEX.	Total.	Jan.	l'eb,	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Av'rage.
		_												
Total	-1,386	66	87	107	123	147	116	101	126	120	126	115	152	115.50
Males	652	30	40	64	55	71	54	47	59	56	60	47	69	54.83
Females.	734	36	47	43	68	76	63	54	67	64	66	68	83	61.17

a Excluding 6 deaths in unknown month. The number of deaths from Consumption, as returned, is 1,892.

There are four exceptions in 1874 to the proposition that the temperature was higher than the average in months when more than the average number of deaths from consumption occurred, and vice versa; and to the proposition that more than the average amount of vapor was inhaled in months when more than the average number of deaths occurred, and vice versa, there are five exceptions. The foregoing is the same as saying that in eight out of twelve cases, and in seven out of twelve cases, respectively, the propositions held true. Other items of interest may be learned by a study of Exhibit O.

EXHIBIT O .- Consumption .- Deaths from Consumption, returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

	Months	Cons	7HS OM UMP- 1874.	Mean	of threvations, 2 P.	-Fahr.; se Daily , — at 7 M., and	HUM			OSPHER!		Ozon Rela Maxin 10	UM=	Avorage.*
	ORDER BY			Ave	rage ige.	-	Cent	or, in	or in	of Vapor	Vapor iin 24 aled.a		7	ahr.,-/
Co	NUMBER OF EATHS FROM INSUMPTION, GREATEST FIRST.	Number,	Per Cent. of Total.	Daily.	From Day to Day,-2 P. M. to 2 P. M.	Temporature,	Relative Humidity, or Per of Saturation,	Force or Pressure of Vapor, Inches.	Weight, in Grains, of Vapor Cubic Foot of Air.a	Weight, in Troy Oances, of Inhaled by one person hours, a	Weight, in Truy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhalod.a	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahr., Average.
Ye	ar, 1874	ь 1,386	100.00	15,65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28,935
eg.	May	155	11.18	12.00	14.13	c 26,96	85	.135	1.55	d .97	10.71	4.00	4,20	29,001
aths		150	10.82	17 65	20.84	59,58	62	.323	3.77	2,36	9.32	5.80	4.90	28,864
r De		128	9.24	17.23	19,61	69,39	74	.527	5.75	3,59	8.09	2,80	1.10	28,924
an t	Oct	128	9,24	17.81	19.45	49.10	79	.282	3.15	d 1.97	9.71	3,32	3,03	28,953
e E	April	121	8.73	16,53	19.73	□ 36.87	75	,169	2.08	d 1.30	10.38	5.70	6,60	28,941
Mon	Sept	118	8.51	23.87	27,57	62,85	76	,422	4.72	2.95	8.73	2.90	1.20	28,946
Av	erage	116	8.33	15,65	18.27	47.05	78	.294	3,36	2.10	9,58	4.10	3.99	28,935
e .	June	114	8,23	15.53	19.07	c 70.61	75	.559	6.07	d 3.79	7.89	3.50	2.34	28,878
vera atlıs	Nov	113	8.15	13.10	13.83	35.00	77	.145	2.06	1.29	10.39	8.80	4.50	28,937
De	March	109	7.87	13.52	16.45	32,30	83	.161	2.00	1.25	10.43	5,00	6.00	28,895
Less than the Average Number of Deaths.	July	103	7.43	17.68	21.35	a 72.02	71	,539	6.00	d 3.75	7.93	1.80	1.50	28,907
d d	Feb	80	5.77	12.32	14.07	25.51	89	.128	1.55	.97	10.71	5.53	6.10	28.928
Les	Jan	67	4.83	10.58	13.13	27.70	88	.135	1,58	,99	10.69	5.10	6.39	29,048

^{*} Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

Pneumonia.—The number of deaths from pneumonia returned as having occurred in Michigan has been constantly increasing since 1869, the order of the years, the one with the greatest number of deaths first, being: 1874, 800; 1873, 706; 1872, 641; 1871, 441; 1870, 376. The proportion of all deaths returned as caused by this disease also has increased with each year since 1869, whereas the proportion of deaths from consumption has generally decreased annually since 1869. In 1874, 6.40 per cent. of the deaths from all causes were caused by pneumonia, which is second only to consumption in proportional mortality.

^{*} See foot-note to Exhibit K, page 279.
Six in unknown month excluded.

[•] Six in unknown month excused.

• Exceptions to the proposition that the Temperature was higher than the average in months when more than the average number of deaths from Consumption occurred, and vice versa.

• Exceptions to the proposition that more than the average amount of vapor was inhaled in months in which there was more than the average number of deaths from Consumption, and less than the average amount in months in which less than the average number of deaths occurred.

The largest number of deaths from pneumonia in 1874 occurred in April, the smallest in July. More than one-third of all decedents from this disease in 1874 were under five years of age, the per cent. being 34.50. In each year more males than females have died from this disease in this State.

Exhibit 17, page 302, is a new one, showing, by months, the number of deaths from pneumonia for each of the years 1871-1874, and the monthly average for those four years. The data contained in this exhibit are graphically represented in Diagram 9, page 303. In this diagram may readily be seen what has been remarked above, —that 1874 was an exceptional year for pneumonia, as compared with other years. The line representing the deaths from pneumonia in 1874 is very high in March, April, and May; and it is generally higher than the line representing the average for the four years. This is a very favorable opportunity for studying the influence of meteorological conditions, particularly as some conditions which usually vary together are found not to do so in this instance. By the table on page 264 and by Diagram No. 6 on page 265, it may be seen that the temperature was very unusually low in April, 1874, and this might have some relation to the deaths in April, 1874, and perhaps in the succeeding month, but the deaths from pneumonia were also unusually numerous in March, 1874, when the temperature was even a little higher than usual for that mouth. Turning to pages 268-9 it may be seen that similar remarks may be made respecting the humidity of the atmosphere in March and April, 1874; though the generally drier air than usual in the succeeding months may indicate a closer relation of humidity than of temperature to the causation of pneumonia. An unpublished diagram (used for purposes of study by the compiler) shows that according to the night observations the ozone was slightly excessive in January, February, March, and May, and greatly in excess in April, 1874, though not excessive after May, and therefore not corresponding with the greater than usual number of deaths from pneumonia after May. Making the comparisons of deaths and conditions in 1874 with those of preceding years, it would seem, however, that the evidence of causation of deaths from pneumonia in 1874 is stronger relative to humidity than to temperature, and rather stronger relative to ozone than to humidity; but by turning to pages 272-3, it would appear that the unusually high pressure of the atmosphere during the first part of the year 1874 may have had even a closer relation to the deaths from pneumonia than had any of the other meteorological conditions.

Exhibit 18, page 300, is a new one, planned to facilitate the study of the influence of meteorological conditions upon deaths from pneumonia. To study every month in the year for a series of years is quite an undertaking, and inasmuch as the greatest number of deaths from pneumonia occur in every year during the months of February, March, and April, this exhibit has been made to study the relations of meteorological conditions in February and March for the several years 1869-74. By studying the foot-notes to the exhibit, it will be seen that several meteorological conditions seem to bear close relations to the deaths from pneumonia,—range of temperature, temperature, absolute humidity, night ozone, and atmospheric pressure sustaining the closest relations.

The subject is further studied, as relates to the year 1874, in Exhibit P, page 301.

EXHIBIT 18.—PNEUMONIA.—Deaths returned as having occurred in Michigan from Pneumonia in February and March of each of the Years 1869-1874, the Average for the Six Years ending with 1874, and some Meleorological Conditions existing at the same time, at the Agricultural College, near the centre of the thickly settled part of the State. (See Note on pages 279-280.)

	DEATHS FROM PREDMONIA.	Temp Mean servat 2 P. B	of 3 Da ions,—	e,—F.; ally Ob- 7 A. M., 9 P. M.	MO	HIDITY SPHERE CONTHI ERAGI	Y AV-	RELA MAX	NE,— ATIVE. IMUM 10,	Fahren.	hes.		GE OF METER.
FEBRUARY AND	DEA	AVE Rai	RAGE KGE.		Per	Vapor,	of Vapor,			to 32°	in Inc		
MARCH OF EACH OF THE YEARS 1869-1874.	٠		Day to Day,-2 M. to 2 P. M.	ature.	t. of Saturation,	Pressure of in Inches.	Weight, in Grains, of Vair, in Cubic Foot of Air,	A. M. to 2 P. M.	9 г. м. to 7 м. ж.	Reduced helt,—Ave	Rain and Melted Snow, in Inches.		Dully.
	Number.	Daily.	From I	Temperature.	Relative Cent.	Force or	Weight	Day,-7	Night,-9	Barometer	Rain an	Monthly.	Average Daily.
(Feb	65	15.60	18.25	23,75	89	.123	1.49	4.58	6.01	28,847	1.449	1.169	. 160
Average { Mar	74	15.23	17.75	30.24	81	.144	1.73	4.03	5.84	28.875	2.354	1.039	.172
(Feb.	64	17.10		26.66	95	.148	11.78			o 28,839	2,950	1.483	
1869	72	17.40		27.60	82	.124	1.48			28,934	1.653	.717	
1870	46	• 15.46	c17.89	24.25	g 84	.112	1.35			o 28.807	1.203	1.215	
Mar.	44	b14.58	416.48	130,28	84	.148	J 1.76			P 28,845	8.007	1. 161	
1871 Feb	50	•18.71	c17.39	25.65	90	.132	1 1.58			o 28.816	1.780	.978	 -
Mar	64	b14.42	19.26	38,18	83	.194	1 2.28			p 28,810	3.910	.844	
1872 { Feb	64	20.41	23.21	21.34	g 84	.100	1.23	k 4.00	m 6,00	0 28,842	.490	1. 107	.111
Mar	75	17.82	4 19,97	f 24.75	h 85	.109	J 1.32	1 3.00	n 5.71	р 28.911	2,040	1.121	. 166
1873 Feb	110	14.61	18.71	• 19.10	g 91	.117	1 1.43	4.21	5.93	28,847	.770	.842	. 197
Mar.	80	14.16	16.61	128,30	71	.127	J 1.52	4.09	n 5.80	28.852	1.780	1.307	.218
1874 Feb	57	* 12.32	c14.07	25,51	89	.128	1 1.55	5.53	6.10	28,928	1.550	1.887	.171
(Mar.	108	13.52	16,45	32,30	h 83	.161	2.00	15.00	n 6,00	p 28,895	1.786	1.081	. 183
Av. for years 1872-1874 to compare with Ozone Mar	77 88												

^{*} See foot-note to Exhibit K, page 279.

† Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

‡ See foot-note b, page 274.

* Three, out of the six, cases in which the average daily range of temperature was less than the average, and the number of deaths was less than the average.

b Two, out of the six, cases in which the average daily range of temperature was less than the average, and the number of deaths was less than the average.

c Three, out of the five, cases in which the average range of temperature from day to day was less than the average, and the number of deaths was less than the average.

d Two, out of the five, cases in which the average range of temperature from day to day was less than the average, and the deaths less than the average, or the range and the deaths both greater than the average.

than the average, and the deaths less than the average, or the range and the deaths both greater than the average.

• Five, out of the six, cases in which the average temperature was higher, and the deaths less than the average, or the temperature lower and the deaths greater than the average.

• Four, out of the six, cases in which the average temperature was higher, and the deaths less than the average, or the temperature lower and the deaths greater than the average.

• Three, out of the six, cases in which the relative humidity and the deaths were both less than the average, or the relative humidity and the deaths both greater than the average.

• Two, out of the six, cases in which the relative humidity was greater than the average, and the deaths greater than the average, and the deaths greater than the average.

• J, J, k, I, m, n, o, P, See bottom of page 301.

EXHIBIT P.—PNEUMONIA.—Deaths from Pneumonia returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

	NTHS IDER BY	DEATH PNEUT 18	tonia.	Obser	of thr vations, ., and 9	- Fahr.; ce Daily -7 A.M., P. M.	Hum	Mon	F ATMO	SPHERE	, Erc.,—	OZONE, ATI MAX =	IMUM	renheit,-
	BER OF				RAGE NGE.		or Per	Vapor,	Vapor ir.s	ces, of	ces, of n Ahr ms, in led.a	ж.	ж.	32° Fah
PNE GRE NU	ROM UMONIA, SATEST MBER (RST.	Number,	Per Cent. of Total.	Daily.	From Day to Day,— 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Cent. of Saturation.	Force or Pressure of in Inches.	Weight, in Grains, of Va	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, Vapor Exhaled from A Passages in 24 hours, i excess of vapor inhaled.a	Лау, —7 А. м. to 2 г. м	Night, -9 P. M. to 7 A.	Baremater Reduced to 32° Fabrenbeit, Average.*
Year,	1874	ь 798	100.00	15,65*	18.27°	47.05°	78	.294	3.36	2,10	9,58	4,10	3,99	28,935
o o e	[April	141	17.67	16.53	19.73	36.87	75	.169	2.08	1.30	10,38	5,70	6,60	28,941
an te	March.	108	13.53	13,52	16.45	32,30	83	.161	2.00	1.25	10.43	5.00	6,00	f 28,895
More than the Average No. of Deaths.	May	108	13,53	17.65	20,84	e 59.58	62	.323	3.77	d 2.36	9,32	5.80	4.90	1 28.864
Ave	Dec	93	11.65	12,00	14.13	26,96	85	.135	1.55	.97	10.71	e 4.00	4.20	29,001
Avera	ge	67	8.33	15.65	18,27	47.05	78	,294	3.36	2.10	9,58	4.10	3.99	28.935
Jec	Feb	57	7,14	12.32	14.07	c 25.51	89	.128	1,55	d .97	10.71	* 5.53	e 6.10	28,928
Number	Nov	50	6.27	13.10	13.83	e 35.00	77	.145	2.06	d 1.29	10,39	3.80	· 4.50	f 28,937
98 .	Jan	49	6.14	10.58	13.13	c 27.70	88	.135	1.58	4 .99	10,69	e 5.10	e 6.39	f 29,048
aths.	June	46	5.77	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3,50	2.34	28,878
Less than the Average of Deaths.	Sept	46	5.76	23,87	27.57	62,85	76	.422	4.72	2,95	8,73	2.90	1.20	f 28,946
90	Oct	39	4.89	17.81	19.45	49.10	79	.282	3.15	d 1.97	9.71	3.32	3,01	r 28,953
th	Aug	32	4.01	17.23	19.61	69,39	74	.527	5.75	3,50	8,09	2.80	1,10	28,924
2	July	29	3.64	17.68	21.35	72.02	71	.539	6.00	3,75	7.93	1.80	1.50	28,907

Comments on the subject studied in Exhibit P are printed on pages 299 and 302.

^{*} Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

* See foot-note to exhibit K, page 279.

b Two deaths in unknown month excluded.

c Exceptions to the proposition that the temperature was greater than the average in months in which less than the average number of deaths from Pneumonia occurred, and vice versa.

d Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was less than an average number of deaths from pneumonia, and vice versa.

Exceptions to the proposition that the ozone was more than the average in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

Exceptions to the proposition that the atmospheric pressure was greater than the average in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

¹⁾ Four, out of the six, cases in which the absolute humidity was greater and the deaths less than the average, or the absolute humidity less and the deaths greater than the average.

A One out of three cases in which the day ozone was less than the average, and the deaths less

than the average, and the deaths were both greater than the average, and the deaths less than the average, and the deaths were both less than the average, or the day ozone and the deaths were both greater than the average.

"One out of three cases in which the night ozone and the deaths were both less than the average.

"Three, out of three, cases in which the night ozone and the deaths were both less than the average, or the night ozone and the deaths were both less than the average, or the night ozone and the deaths greater than the average.

"Four, out of the six, cases in which the pressure of the atmosphere was less than the average, and the deaths from pneumonia were less than the average.

"Four, out of the six, cases in which the pressure of the atmosphere was less and the deaths less than the average, or the pressure and the deaths were both greater than the average.

Diagram No. 10 represents, by months, the deaths from pneumonia in each of the years 1871-1874, and the average for four years ending with 1874, the number of deaths having been corrected for probable omissions in the enumeration, the per cent of correction used being that used for deaths from all causes, as shown in the second line of Exhibit C of deaths, in Reports for 1873 and 1874, and in Exhibit G, of deaths, in Reports for 1871 and 1872, respectively. The general showing of this diagram is very similar to that of diagram No. 9, although the lines representing the deaths in the fore part of each year are relatively higher. It has been planned and is published in order to show the effect of such a correction as is worked out for all deaths when it is applied to the deaths from a single disease. It may be seen that in Diagram No. 10 the scale is one-half that in Diagram No. 9, but the changes by the correction are not so great as might be expected, and the inference is plain that, for the present, the study of the relations of the deaths as returned to the meteorological conditions is well worthy of continuance.

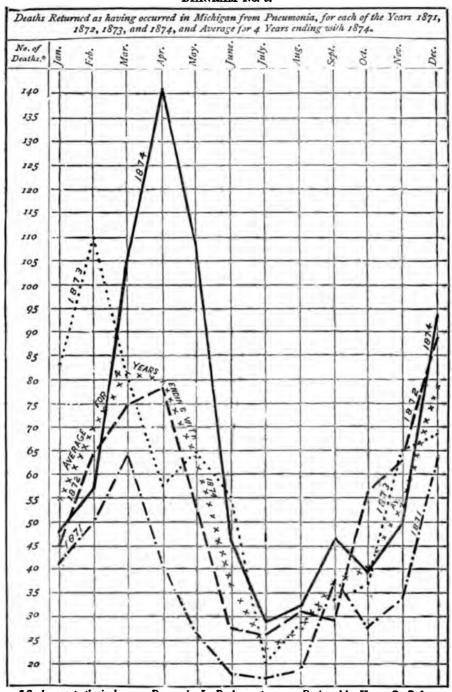
EXHIBIT 17.—PNEUMONIA.—By Months, the Number of Deaths returned as having occurred from Pneumonia, in Michigan, during each of the Years 1871-1874, and the Average for Four Years ending with 1874.

	To-				P	NEUMO	NIA, BY	Mon1	rns,—1	871-187	L			
YEARS.	tals,	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1871	441	41	50	64	41	27	18	17	19	38	28	34	63	
1872	641	46	64	75	79	53	28	26	81	29	56	63	89	
1873	706	84	110	80	58	65	55	20	29	84	87	65	68	
1874	80U	49	57	108	141	108	46	29	32	46	89	50	93	,
Av. for 4 y'rs.	647	55	70	82	80	63	37	23	28	87	40	53	78	

The statements in Exhibit 17 are graphically represented in Diagram No. 9, on the opposite page. Remarks on the subject are printed on pages 299 and 302.

CORRELATION OF CONSUMPTION AND PNEUMONIA.

In studying these diseases, the compiler makes the propositions for pneumonia the opposite of those made for consumption; and we find that to the proposition that the temperature was greater than the average in months in which less than the average number of deaths from pneumonia occurred, and vice versa, there are four exceptions in 1874,—the same as to the opposite proposition for consumption; and to the proposition that more than an average amount of vapor was inhaled in months in which there was less than the average number of deaths from pneumonia, and vice versa, there were five exceptious in 1874,—also the same as to the opposite proposition for consumption. The evidence in the statistics for 1874 coincide with that for previous years,—that consumption and pneumonia are, respectively, most prevalent under opposite circumstances.



Scale=20 to the inch. Draw

Drawn by L. De Lamarter.
MICH. ENG. CO.

Designed by Henry B. Baker.

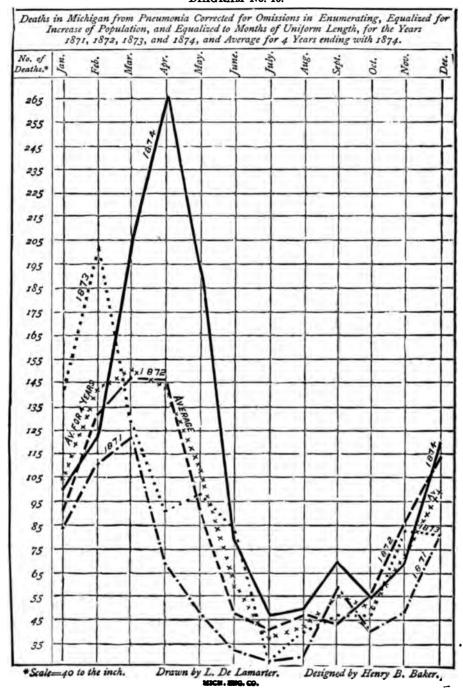


TABLE XXII.—Correlation of Consumption and Phrumonia.—Deaths from Consumption and Pheumonia returned as homing of continuous during the Year 1874. By Months. Exhibiting the Total Number, Number of each

			DRATES	NOW.	COMBUNETION,		1874.					DEATES FROM	PROM P.	PREUMOKIA,	14, 1874			
		NUMBER.	16	of di	PER CENT.	OF BOTH	OF EACH SEX TO TOTAL.	O TOTAL		NUS	NUMBER.		of di	PER C	CENT. OF E	OF EACH SEX.	2	TOTAL
MONTHS, 1874.				Hon			Exc	Excras.			2		non			-1	Ex	Excuss.
	Males.	Females.	Total	Per Cent.	Males	Females.	Males.	Femal's.	Males.	Females.	Тикпочи	Total.	Per Cent. in each l Total for	Males.	Females.	Токвочи	Males.	Femal's.
Fear, 1874	909	736	1,399	100.00	47.18	52.87		5.74	469	330		800	100.00	68.63	41.25	21	17.38	
January	88	55	67	4.81	44.78	36.30	٠	10.44	88	24	1	49	6.13	57.14	42.86		14.28	0
February	55	63	8	5.75	46.25	53,75		7.50	31	36	-	57	7,13	54.38	45.61	1	8.77	0
March	99	2	b 109	7.83	59.63	40.37	16.26	-	89	40	1	b 108	13.50	62.96	37.04		25.92	1
April	10	67	121	8.69	44.63	55.37	U	10.74	81	98	1	141	17.63	57.45	42.55	i	14.90	٥
Мау	73	11	150	10.78	48.67	51.33	ø	2.66	8	9	-	108	13.50	62.96	37.04	1	25.92	٧
June	200	61	114	8.19	46.49	53.51	۰	7.02	25	22	1	46	5.75	54.35	45.65	ı	8.70	0
July	48	25	103	7.40	46.60	53.40		6.80	16	13	-	88	3.63	55.17	44.83	1	10.34	0
August	99	89	b 128	9.20	46.87	53,13	9	6.26	17	15	1	33	4.00	53,13	46.88	1	6.25	b
September	23	63	b 118	8,48	46.61	53,39	u	6.78	27	18	-	b 46	5.75	58.70	39,13	2.17	19.57	0
October	19	19	b 128	9.30	47.66	52.34	v	4.68	50	19	1	b 39	4.88	51.28	48,79	1	2,56	•
November	46	67	113	8,19	40.71	59.29	U	18.58	88	83	*	20	6.25	26.00	44.00	1	12.00	0
December	20	88	168	11.14	45.16	54.84	ø	9.68	28	8	1	83	11.63	62.37	37,63	- 1	24.74	0
Unknown	*	61	9	.43	66.67	33.33	33.34	-	ex		1	C1	22.	100.00		1	100.00	1
Average	54.33	61.17	115.50	82.98	47.01	53.00			38.92	27.50		66.50	83, 13	57.16	42.68			

Excluding deaths in unknown month.
 Less than the average number of deaths from consumption, and more than the average from pneumonia, or vice versa.
 Eleven out of twelve months in which there was an excess of deaths of one sex from consumption and of the opposite sex from pneumonia.

TABLE XXIII.—Correlation of Consumption and Phenmonia.—Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Phenmonia in Michigan during the Year 1874.

			ı															
		DEA	ATHSF	FROM CC	CONSUMPTION,	PTIOI	r, 1874				DEATH		FROM P	NEUM.	KEUKOKIA,	1874		
AGES IN		NUMBER.	ei.	Per Cent	Per	CENT. 0	CENT. OF THE SEXES.	X E.S.		Non	Number.		Per Cent		PER CENT. OF THE SEXES.	. OF TH	e Sexes.	
VEAROUS OF		2		at each		2	Exc	Excess.		ŝ			at each		2		Excess.	888.
	Males.	males.	Total.	Desibs at	Males.	na je	Males.	Fe. males.	Kalce		Uak.	Total.	Destha at All Agos.	Males.	malea,	Unk.	Malos.	Fe. malea
All Ages	959	736	1,392	100.00	47.18	52.87		5.74	89	88	-	8	100.00	58.63	41.35	.12	17.38	
Under 6	8	129	ğ	7.4.7	50.96	19.04	1.92		7	88	-	278	37.50	58.28	46.38	8.	88	9
5 to 10	•	35	ន	1.66	34.78	65.23		30.44	19	-		얾	2.73	68.18	31.82		36.36	:
10 to 15	12	S	1.7	8.38	25.53	74.47		48.94	13	2	-	81	2.75	54.55	45.45	:	9.10	•
15 to 20	ង	11	88	P 6.90	28.02	8.8		47.93	18	유	-	8 2	2 28	91.54	88.48 88.48		23.08	
20 to 25	· 67	117	187	18.28	38.41	83.58		27.18	91 °	2		88	5 225 200	9579	38.46	!	23.08	
25 to 30	5.2	87	b 157	b 11.28	44.58	56.41		10.83	11,	38	-	83 _a	b 3.63	87.93	62.07	-	:	24.14
30 to 35	85	76	b 131	19.6	42.74	57.55		197	° 18	음		8	b 8.25	61.64	38.46		23,08	-
\$5 to 40	97.	23	₹ 101	b 7.96	45 54	54.48		8.92	c 17	82		28	P 4.37	48.57	51.43			2.86
40 to 45	. 43	88	₽ 81	8879 4	88.00	46.91	6.18		83	2		b 37	4.63	28.46	40.54	-	18.93	
45 to 50	2	g	92	6.46	67.69	42.11	16.78		81	2	_	28	88.	74.36	3		48.73	
50 to 55	3	83	ه 25	b 5.24	61.64	38.38	88		8	*		4	b 6.12	71.43	28.57		42.86	
65 to 60	3	8	11.	5 5.10	80.58	39.44	21.12	7	c 27	22	-	8	₽ 6.00	28.25	43.75		12.50	4
60 to 65	\$	13	2	88.7	86	81.16	97.70		8	2		28	187	74.36	3	-	48.72	
65 to 70	3	엃	25	88	57.38	42.67	14.06	7	ä	2	-	\$	2.50	88.93	48.18		13.64	۳
70 to 75	2	12	3	3.45	2 .88	86.43	29.16		22	ន		8	9.7	66.67	33.33		33.34	
75 to 80	14	8	ಪ	74	41.18	28.83		17.64	7.	ю	-	21	94 88	73.68	26.32		47.38	-
80 and over	7	•	22	8.	58.85	46.16	7.88	7	œ	-		2	1.88	53.33	48.67		6.66	7
Unknown	-	2	17	81	41.18	58.82	:	17.64	9	•	i	21	1.80	80.00	20.00			
Average	38.18	48.71	98.08	5.81	48.86	27.44			27.24	19.06	8	46.35	8.9	60.79	88.19	8. 8.		

Of 17 Periods, of five years each, excluding deaths at Unknown Ages.
 More than the average number and per cent. of deaths from consumption, and less than an average number and per cent. of deaths from pneumonis, and vice versa.
 More than an average number of deaths of males from consumption, and less than an average number of deaths of males from pneumonia, and vice versa.
 More than an average proportion of males from consumption, and less than an average proportion of males from consumption, and less than an average proportion of males.

TABLE XXIV .- Exhibiting, for the State and Eleven Geographical Divisions, in 1874, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia, from Typhoid Fever, from Intermittent Fever, and from Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea to Death's from All Causes.

STATE And			Consu	MPTION.	PHEU	MOMIA.	Түрно	d Fever.	INTER FE	MITTENT VER.	DIAR	RHBA.
GEOGRAPH- ICAL DIVISIONS.	Sex.	A11 Causes, 1874.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Desthe from All Canses.
	(Ta	12,500	1,892	11.14	860	6.40	c 6 10	4.88	4 62	,50	380	3.04
.	Ma	6,665	656	9.84	469	7.04	817	4.76	24	.36	218	8.27
STATEb	Fe	5,804	736	12.68	830	5.69	293	5.05	38	.65	162	2.79
	Unk.	81			1	8.23			•••••			
	To	655	60	9.16	83	5.04	92	3.86	4	.61	81	4.78
Upper Penin'lar	Ma.	384	28	7.29	25	6.51	12	8.13	2	.52	15	8.91
	To	271	32	11.81	8	2.95	10	8.69	2	.74	16	5.90
	Ta	207	19	9.18	10	4.83	2	.97	1	.48	5	2.41
Northwestern	Ma	92	10	10.87	8	3,26	1	1.09			1	1.09
	Fe	115	9	7.88	7	6.09	1	.87	1	.87	4	8.48
	Ta	123	9	7.32	2	1.68	2	1.63			8	2.44
Northern	Ma.	71	2	2.82	1	1.41	1	1.41			8	4.23
	Ta	52	7	13,46	1	1.92	1	1.92				
	[Ta	75	8	4.00	1	1.88	1	1.83	1	1.23	16	21.83
Northeastern	Ma	41	2	4.88	1	244	1	244	 -		6	14.63
2101 ta casa (c. a	Ja	35	1	3.06					1	8.65	10	83.88
	Unk.	1										•••••
	To	1,316	130	9.88	59	4.48	89	5.24	6	.46	. 49	8.79
Western	Ma	684	57	8. 33	87	5.41	84	4.97	2	.29	26	8,80
	Fa	627	78	11.64	22	3.51	85	5.58	4	.64	23	8.67
	Unk.	5				••••						
	To	186	21	11.29	18	6.99	18	9.69	2	1.08	6	8.23
North'n-Central	Ma	79	9	11.39	6	7.59	8	10.13	1	1.27	2	2.53
	Fa	106	12	11.32	7	6.60	10	9.43	1	.94	4	8.77
	Unk.	1										

a For counties included in each Division, see page 181.
b For counties and townships from which no returns of deaths in 1874 were received, see Exhibit H, pages 149-151; for those in which no deaths occurred, see Exhibit I, page 152.
c Includes 1 "Intestine Fever," and 1 "Typhoid Delirium."
d Includes 2 deaths from Worm Fever, and 7 from Worm Fits.

TABLE XXIV.—CONTINUED.

GEOGRAPH-			Const	mption.	Pnet	JMONIA.	Турно	d Fever.	Inter Pe	MITTENT VER.	DIA	RRBEA.
ICAL DIVISIONS.	SEX.	All Causes, 1874.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent, to Deaths from All Causes.	Number of Deaths.	Per Cent, to Deaths from All Causes.	Number of Deaths.	Per Cent, to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
!	Ta	1,826	165	9.04	101	5.53	76	4.16	16	.88	66	3.61
Bay and East'rn	Ma	985	83	8.43	57	5 79	45	4.57	7	.71	40	4.06
Day and mast rn	Fa	835	82	9.82	43	5.15	81	8.71	9	1.08	26	8.11
	Unk.	6			1	16,67						
!	Tu	2,068	220	b 10.64	164	▶ 7.93	190	5,80	16	.77	24	1,16
Central	Ma	1,095	91	8.31	97	8.86	67	6.12	7	.64	15	1.37
Contraction	Te	970	129	18.30	67	6.91	53	5.46	9	.93	9	.93
İ	Unk.	8			•							
1	To	1,118	183	11.90	129	11.53	73	6.53	2	.18	15	1.84
Southwestern	Ma	609	69	11.83	80	13.14	84	5.58	1	. 16	12	1.97
l	Fe	509	64	12.57	49	9.63	89	7.66	1	.20	8	.58
	To	2,241	322	14.87	166	7.41	108	4.82	5	.22	21	.94
South'n-Central	Ma	1,141	136	11.92	94	8.24	54	4.78	1	.09	16	1.40
South H-central	Te	1,094	196	17.00	72	6.58	54	4.94	4	.87	5	.46
	Unk.	6	•••••			•••••	••••					•••••
!	To	2,685	810	b 11.55	122	b 4.54	119	4.48	9	.34	144	5.36
Southeastern	Ma	1,484	169	11.38	68	4.58	60	4.04	8	.20	82	5.53
	Fa	1,192	141	11.68	54	4.53	59	4.95	6	.50	62	5.20
į	Unk.	9										

^{*} For counties included in each Division, see page 181.

b More than an average per cent. of deaths from consumption, and less than an average per cent. of deaths from pneumonia, and vice versa. This is the case in two out of the eleven geographical divisions.

TABLE XXV.—Exhibiting, for the State and by Counties, for the Year 1874, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia. from Typhoid Fever, from Intermittent Fever, and from Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea to Deaths from All Causes.

	Deaths,	Consu	MPTION.	PHRU	MONIA.	Турноп	FEVER.	Intermit	r. Fever.	DIA	RRHEA.
STATE AND COUNTIES.	All Causes, 1874.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	l'er Cent. to Deaths from All Causes,	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes,	Num- ber of Dea's,	Per Cent. to Deaths from All Causes.
STATE	12,500	1,392	11.14	800	6.40	610	4.88	• 62	.50	380	3.04
Alcona	11									2	18.18
Allegan	311	85	11.25	35	11.25	20	6.43			4	1.29
Alpenab	32	1	3. 13	1	8.13	1	8.13			13	40,63
Antrimb	83	2	6.06			1	8.03		ļ	1	8.03
Baraga	10			2	20,00		••••			1	10.00
Barry	195	16	8.21	15	7.69	10	5.13			8	2,56
Bayb	250	82	12.80	7	2,80	7	2,80	4	1,60	25	10.00
Benzie	26	3	11.54	1	8,85	1	8.85			2	7.69
Berrien	895	41	10.88	46	11.65	25	6.83	1	.25	8	2.08
Branch	220	87	16,82	19	8.64	8	8,61				
Calhoun	300	44	11.33	17	5.67	16	5.33			6	2.00
Cass	141	17	12.06	22	15.60	11	7.80	1	.71	2	1.49
Charlevoix	21	5	23.81	1	4.76					1	4.70
Cheboygan b	24	2	8,33	1	4.17					 	
Chippewab	8	2	25.00			2	2.50				
Clare	28	8	10.71			9	8.21				
Clinton	195	29	14.87	12	6.15	17	8.72	 		8	1.54
Deltab	39	5	12.82	2	5.13		 				•
Eaton	236	26	11.02	19	8,05	9	3.81	 	 		ļ
Emmetb	81									1	8.21
Genesee	220	26	11.82	13	5.91	10	4.55	2	.91	1	.44
Gladwin	1	ļ							 	ļ	
G. Traverseb	85	1	2,96	1	2.86	1	2.86		 		ļ
Gratiot b	127	10	7.87	7	5.51	8	6.80	2	1.57	1	.75
Hillsdale	221	85	15.84	23	10.41	13	5.88	1	.45	1	.44
Houghton	25.5	17	7.56	11	4.89	11	4.89	8	1.33	17	7.50
Huronb	111	10	9.01	8	7.21	4	3.60	1	.90	5	4.50
Ingham	262	26	9.92	84	12,98	8	8,05	5	1.91	6	2,25
Ionia	286	23	8.04	21	7.34	19	6.64	2	.70	4	1.40
Ioscob	26	2	7.69	ļ	 	 		1	3,85		
Isabella	36	7	19.44	4	11.11	4	11.11	1	2.78	1	2.71
Jackson	277	84	12.27	16	5.78	13	4.69	 		1	.80
Kalamazoo	331	56	16 92	36	10.88	11	3.32	l	l	5	1.5

a Includes 2 deaths from Worm Fever and 7 from Worm Fits.

Mixcept townships not represented by returns of deaths in 1874. See pages 149-151.

TABLE XXV.—CONTINUED.

	Deaths,	Consu	PTION.	PNEU	MONIA.	Турноп	FEVER.	INTERMI	T. FEVER.	DIA	RRHBA.
COUNTIES.	All Causes, 1874.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths	Number of Deaths.	Per Cent. to Deaths from All Causes.	Num- ber of Dea's	Per Cent. to Deaths from All Causes.
Kalkaska	14					1	7.14				
Kent	586	78	12.46	25	4.27	89	6.66	2	.84	22	8.75
Keweenaw .	53	3	5.66	1	1,88	5	9.42			8	5,66
Lake	26	2	7.69	1	3.85	1	3.85			2	7.69
Lapeer	224	24	10.71	17	7.59	16	7.14	1	.45	3	1.84
Leelanaw	46	8	17.39	8	6.52					1	2.17
Lenawee	330	44	13.83	11	3.33	19	5.76	1	.30	1	.30
Livingston	188	25	13.30	20	10.64	18	6.91			2	1.06
Mackinac	16	4	25.00	1	6.25	 				1	6,25
Macomb	270	35	12.96	11	4.07	2	.74			2	.74
Manistee	70	7	10.00	2	2.86			1	1.43	1	1.43
Manitou	9							 			
Marquette.	254	23	9.06	15	5.91	4	1.57	1	.39	9	8.54
Mason	47	4	8.51	8	6.88	4	8.51	 		2	4.26
Mecosta	79	5	6.33	8	10.18	4	5.06	1	1.27	4	5.06
Menominee.	2					 		 			
Midland	42	6	14.29	1	2,38	1	2.88	 		1	2,38
Missaukee	8	ļ		1	83.88	<u></u>					
Monroe	262	25	15.43	19	11.78	18	11.11	1	.38	8	1.15
Montcalm	191	19	9.95	15	7.85	15	7.85	8	1.57	1	.52
Muskegon	170	15	8.82	6	8.53	8	4.71	1	.59	8	1.76
Newaygo	50	1	2.00	5	10.00	3	6.00			1	2,00
Oakland	285	87	12.98	19	6,67	11	3.96	2	.70	2	.70
Oceanaa	89	4	4.49	4	4.49	1	1.12	1	1.12	1	1.12
Ontonagon	28	4	14,29	1	3.57	 			 		
Osceola	50	8	6.00	8	6.00	3	6.00			4	8,00
Ottawa	298	28	9.40	12	4.03	10	3.36	2	.67	14	4.70
Presque Isle.=	6	 	j		ļ		İ		ļ	1	16,67
Saginaw	568	85	6.16	25	4.40	21	8.70	4	.70	14	2.46
Sanilac	160	13	8.18	16	10.00	7	4.38	2	1,25	5	2.13
Schoolcraft.	20	2	10.00			 					
Shiawassee_	168	20	11.90	8	4.76	11	6.55	2	1.19	1	.60
St. Clair	855	87	10.42	19	5.85	17	4.79	4	1.13	14	2.94
St. Joseph	207	80	14.49	20	9.66	8	3.96	. 		6	2.90
Tuscola	158	14	8.86	9	5.70	4	2.53	ļ			
Van Buren	271	40	14,76	26	9,59	17	6.27		 	1	.87
Washtenaw.	355	42	18.13	24	6.76	20	5,63	8	.85	1	.28
Wayne	1,868	213	11.40	73	8,96	88	4.71	6	.82	137	7.33
Wexford	18	l	<u> </u>	9	11.11	<u> </u>	l	l <u></u>	<u> </u>	1	5.56

a Except townships not represented by returns of deaths in 1874. See pages 149-151.

TABLE XXVI.—Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5, and the Number of Inhabitants under 5 years of Age; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5 to Deaths at All Ages, and the Per Cent. of Inhabitants Aged under 5 years to Inhabitants at All Ages, for the Year 1874.

STATE			OLI	AGE.		ED 70 OVER		DENTS UNDER 5.	INHAB IN AGED U	ITANTS 1874 NDER 5, a
AND GEOGRAPHICAL DIVISIONS.	Sex.	Deaths at All Ages, 1874.	Number of Deaths.	Per Cl. to Deaths at Ali Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Inhab-	Per Ct. to Inhabitants at All Ages, by Geographical Divisions.
	Total	12,500	428	3.42	1,390	11.12	5,138	41.10	178,875	13.61
	Males	6,665	195	2.93	771	11.56	2,828	42,43	90,887	13.24
STATEb	Females_	5,804	233	4.01	618	10.65	2,280	39,28	87,988	14.01
i	Unknown	31			1	3.22	30	96.77		
	Total	655	11	1.68	19	2,90	379	57.86	9,519	15.83
Upper-Peninsular	Males	384	8	2.08	15	3.91	212	55.21	4,920	13,93
	Females	271	3	1.11	4	1.48	167	61.63	4,599	18,53
!	Total	207	9	4.35	18	8,70	110	53.14	3,516	15.03
Northwestern	Males	92	4	4.35	10	10.87	48	52,17	1,762	13.68
	Females	115	5	4.35	8	6.96	62	53.91	1,754	16.68
1	Total	123	2	1.63	2	1.62	70	56.91	1,647	16.56
Northern	Males	71	2	2,82	2	2.82	44	61,97	841	15.39
	Females	52					26	50.00	806	17.98
!	Total	75	2	2.67	3	4.00	40	53.33	1,448	15,10
Northeastern	Males	41	1	244	2	4.88	17	41.46	721	12.73
MOTERIOR POLITICIST	Females	33	1	3.03	1	3.03	22	66.66	727	18.51
į.	Unknown	1	******				1	100,00		
!	Total	1,316	89	2,96	114	8,66	646	41.49	19,718	14.21
Wastern	Males	684	14	2.05	63	9.21	850	51.17	10,108	13.66
Western	Females	627	25	3.99	51	8.13	291	46,41	9,610	14.83
	Unknown	5					5	100.00		
!	Total	186	7	3.76	15	8,06	106	56.99	2,941	15.22
Northern-Central	Males	79	4	5.06	8	10.13	45	56.96	1,483	14.22
Molinelu-Central	Females	106	3	2.85	7	6.60	60	56.60	1,458	16.41
i	Unknown	1					1	100,00		

For counties included in each Division, see page 181.
 For counties and townships from which no returns of deaths in 1874 were received, see Exhibit H, pages 149-151; for those in which no deaths occurred, see Exhibit I, page 182.

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE XXVI.—CONTINUED.

			OLE	Age.	AND	ED 70 OVER.	AGED !	DENTS Under 5.	IN	ITANTS 1874 NDER 5, s
GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths at All Ages, 1874.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Inhab- itants.	Per Ct. to Ichabit- ants at All Ages, by Geographical Divisions.
	Total	1,826	40	2,19	195	10.68	817	44.74	27,360	15.02
	Males	985	22	2.23	105	10.66	467	47.41	13,806	14,25
Bay and Eastern.	Females	835	18	2.16	90	10.78	344	41.20	13,55#	15,90
	Unknown	6					6	100,00		
	Total	2,068	77	3.72	236	11.41	783	37.86	31,378	13.13
	Males	1,095	33	3.01	123	11.23	455	41.55	15,952	12,85
Central	Females	970	44	4.54	113	11.65	325	33.51	15,426	13.43
	Unknown	3					3	100,00		
	Total	1,118	31	2.77	135	12,07	406	36.31	14,902	12.73
Southwestern	Males	609	9	1.47	75	12,32	223	36.62	7,484	12,36
	Females	509	92	4.32	60	11.79	183	35,95	7,418	13,12
	Total	2,241	94	4.19	356	15,89	679	30.30	32,018	11.69
	Males	1,141	41	3.59	194	17,00	355	31.11	16,383	11.01
Southern-Central	Females	1,094	53	4.84	162	14.81	318	29.07	15,635	11.65
	Unknown	6					6	100.00		
	Total	2,685	116	4.32	297	11.06	1,102	41.43	34,428	14.26
Sant Variation	Males	1,484	57	3,84	174	11.72	612	41.26	17,427	14.35
Southeastern	Females.	1,192	59	4.95	122	10.23	482	40.44	17,001	14.17
	Unknown	9			1	11.11	8	88,88		

[•] For counties included in each Division, see page 181.

TABLE XXVII.—Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5, in 1874; the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages; also the Inhabitants in 1874 Aged Under 5 Years, and Per Cent. to Inhabitants at All Ages.

STATE	Agz		ALL AGES.	Огр	AGE.	AGED OV		Aged U	DENTS NDER 5.		TANTS , AGRD R 5. =
AND		ITANTS, 1, 1870.	No. of	No. of	Per Ct.	No. of	Per Ct.	No. of	Per. Ct.	No. of	Per Ct. to Inhabit-
COUNTIES.	Males.	Fe- males.	Deaths, 1874.	Deaths.	Deaths at All Ages.	Deaths.	Deaths at Ail Ages.	Deaths,	Deaths at All Ages.	Inhabit- ants.	auts at All Ages.
State	24.91	23,68	12,500	428	3.42	1,330	11.12	5,138	41.10	178,875	13,6
Alcona	23.26	20.65	11					7	63.64	207	17.00
Allegan	24.11	23,26	811	18	4.18	32	10.29	120	38.58	4,927	18.00
Alpena	23,46	21.04	32	2	6.25	2	6.25	20	62.50	710	15.1
Antrim	23.29	21.84	83	1	3.03	2	6.06	18	54.54	522	17.8
Baraga			10					5	50.00	ь	
Barry	24.74	23.56	195	7	8,59	25	12.82	67	34.36	2,956	18.4
Bay	23.42	21.12	250	4	1.60	13	5.20	135	54.00	8,552	14.4
Benzie	25.84	22,28	26	l	 	l	 	15	57.69	847	18.0
Berrien	24.71	23.26	895	9	2.28	44	11.14	141	85.70	4,498	12.8
Branch	26.67	25.58	220	7	8,18	29	13.18	70	81.82	2,806	10.9
Calhoun	26.42	25.48	800	8	2.67	57	19.00	80	26.67	4,061	11.8
Dass	24.93	24.06	141	1	2.84	25	17.78	41	29.08	2,675	18.0
Dharlevoix.	23.25	21,20	21	l				9	42.86	384	16.2
Cheboygan.	22.87	20.62	24					18	75.00	408	16.8
Chippewa	23.35	23.17	8					5	62.50	213	13.1
Ciare	27.50	21.96	28	1	3.57	1	3.57	12	42.86	199	14.7
Olinton	24.59	23.48	195	l ii	5.64	24	12.81	69	35.38	8.294	18.9
Delta	24.45	19.27	89		0.01	8	7.69	23	58.97	599	14.0
Eaton	25.43	24.05	236	10	4.23	22	9.32	87	36.86	8,422	12.7
Emmet	23,33	24.00	81	1	3.23		1	14	45.16	109	12.0
Genesee	25.72	24.55	220		2.78	28	12.78	71	82,27	4,330	12.5
Gladwin			-	١		_		' '		44	16.6
Gr. Traverse.»	23.54	21.93	85	3	5.71	4	11.43	20	57.14	669	14.1
Gratiot	23 35	21.92	127	5	3.94	11	8.66	61	48.03	2,057	15.2
Hillsdale	26.51	25,29	221	8	3.62	49	22.17	45	20.36	8,480	11.0
Houghton	21.64	19.34	225	9	.89	1	1.78	144	64.00	3,223	16.9
Huron		20.21	111	2	1.80	;	3.60	58	52.25	1,840	17.6
Ingham	25.09	24.88	263	10	3.82	83	12.59	100	88.17	8,563	12.2
lonia	25.16	24.07	286	10	3.50	83	13.29	106	37.06	8,637	12.8
Iosco	23.10	21.09	260	1 10	2.00	1	3.85	9	34.62	531	14.4
Isabella	21.89	20.49	36	2	5.56	5	13.89	19	52.78	649	14.8
Jackson	26.71	24.99	277	10	3.61	27	9.75	114	44.77	4,576	12.0
Kalamazoo	25.94	25.10	831	11	3.32	50	15.11	118	85.65	3,865	11.9
Kalkaska	24.88	18.83	14	1 **	0.03		13.11	118	78.57	224	17.7
Kent	25.82	24.00	586	20	8.41	5,	8.53	269	45.90	8,069	12.8
Keweenaw	21.98	19.03	53	1	1.89	1	1.89	22	41.51	890	16.4

^{*} Except of counties and townships not represented by returns of deaths, for which see Exhibit H, pages 149-151. The statement of Average Age is of all inhabitants of the State.

• Population of Baraga county is included in statement of population of Houghton county, and cannot be ascertained.

TABLE XXVII.—CONTINUED.

	AGI	RAGE E OF	ALL AGES.	OLD	AGE.		70 AND		DENTS NDER 5.	IN 1874	ITANTS , AGED IR 5. 4
COUNTIES.	JUNE	ITANTS, 1, 1870.	No. of Deaths, 1874.	No. of Deaths.	Per Ct. to Deaths at All	No. of Deaths.	Per Ct. to Deaths at All	No. of Deaths.	Per Ct. to Deaths at All	No. of Inhabit- ants.	Per Ct. to Inhabit- ants
	Males.	males.	10/4.		Ages.		Ages.		Ages.	ants,	at All Ages.
Lake	24.01	20.68	26			1	3 85	16	61.54	262	14.45
Lapeer	24.57	23, 10	224	7	3.13	19	8.48	86	38,39	8,569	14.20
Leelanaw	28.40	21.64	46	1	2 17	3	6.52	17	36.95	795	15.80
Lenawee	27.03	26.15	330	21	6.36	62	18.79	104	81.51	5,496	11.93
Livingston	26.01	24.98	188	8	4.26	28	14.89	64	84.04	2,581	12.70
Mackinac	22.94	21.63	16	1	6.25	2	12,50	4	25.00	119	17.05
Macomb	25.81	24.85	270	9	3.33	29	10.74	93	84,44	4,046	14.29
Manistee	23.55	20.87	70	! 8	4,29	5	7.14	44	A2.86	1,320	16.01
Manitou	22.49	20.18	9	2	22,22	3	8.83			46	13,49
Marquette.	23.04	20,00	254	5	1.97	5	1.97	148	58.27	8,563	16.26
Mason	24.27	21.27	47	1	2.13	4	8.51	23	48.94	641	15.85
Mecosta	23.86	20.97	79	8	8.80	6	7.59	48	60.76	1,449	15.87
Menominee.	23.79	19.42	2]				1	50.00	408	11.09
Midlanda	24.14	21.58	42	1	2,38	8	7.14	27	64.29	600	14.83
Missaukee	26.05	21.70	3			1	83.83	2	66.66	81	13.37
Monroe	24.12	23.28	262	18	8.02	82	1.97	98	60,49	4,507	14.97
Montcalm	23.64	22.45	191	8	1.57	11	5.76	90	47.19	2,527	13,56
Muskegon	24.09	22.00	170	5	2.94	18	10.59	85	50.00	2,700	14.87
Newaygo *	23.51	21.50	50	2	4.00	8	16,00	24	48.00	1,177	15.58
Oakland	26.57	25.81	285	17	5.96	53	18.60	85	29.82	4,331	11,37
Oceana	24.03	22.57	89	8	8.37	7	7.87	54	60,67	1,214	15,35
Ontonagon	21.07	19.25	28			2	7.14	15	53.57	320	13.30
Osceola	23.27	20.52	50			2	4.00	27	54.00	946	35.43
Ottawa	23.95	22.19	298	8	2.68	24	8.05	148	49.66	4,709	15.78
Presque Isle.a	25.13	19.38	6					4	66.66		
Saginaw	23.81	21.62	568	8	.58	85	14,96	258	45.49	6,784	14.16
Sanilac	22.30	20.62	160	4	2.50	16	10.00	67	41,88	2,813	17.27
Schoolcraft.	24 07	19.49	20	2	10.00	2	10.00	12	60,00	184	14.96
Shiawassee_	24.69	23.67	168	7	4.17	16	9.52	68	40.47	2,971	13.65
St. Clair	23.61	22.28	855	16	4.51	38	10.70	154	48.88	6,220	15.29
8t. Joseph	25.85	24.75	207	8	8,86	26	12.56	53	25.60	8,116	19.08
Tuscola	23.53	21.99	158	4	2.53	20	12.66	59	87.84	2,582	15.19
Van Buren	25.24	23 90	271	5	1.85	34	12.55	104	88,88	8,507	12.03
Washtenaw.	26.36	25.82	855	21	5.92	56	15.77	95	26.76	4,618	11.93
Wayne	24.37	23.54	1,868	77	4.12	183	9.80	826	44.22	21,544	14.87
Wexford	24.66	22.07	18	1	5,56	2	11.11	12	66,67	258	14.62

Except of counties and townships not represented by returns of deaths, for which see Exhibit H, pages 149-151. The statement of Average Age is of all inhabitants of the State.

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Ģ.	CONJUGAL CONDITION.	Total		 :		Unknown.	Total)	Married	Single	Widowed	Unknown.	Total	Married		Widowed .	Unknown.	Total)	-:	Single	
Ş,		1,392 Total	725 Married	502 Single	125 Widowed	42 Unknown.	736 Total)	376 Married	بد.	77 Widowed	M Unknown.	656 Total)	347 Married	Single	Widowed.	18 Unknown.	229 Total	75 Married	 	To Widowed
Ş Q	CONJUGAL CONDITION.			2 502 Single	125 Widowed	42 Unknown.	2 736 Total]	2 376 Married	Single	Widowed	24 Unknown. J	4 656 Total	2 347 Married		48 Widowed .	18 Unknown.	3 229 Total]	2 75 Married	Single	
Ş Q	YEAR, CONJUGAL 1874, CONDITION.	-		502 Single		3 42 Unknown.		_	Single	7 77 Widowed	3 24 Unknown.	70 4 656 Total		243 Single		18 Unknown.		75 Married	Single	
ß, q	TRAN, CONDITION.		4 725 Married	2 502 Single	125 Widowed	5 3 42 Unknown.	01	_	929 Single	12 7 77 Widowed	2 8 24 Unknown.	-	61	243 Single		3 18 Unknown.		2 75 Married	Single	
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	Xovember. December. Unknown. S74. Constron.	113 155 6	55 88 4 725 Married	52 2 502 Single	12 125 Widowed	4 4 5 3 42 Unknown.]	01	_	27 22 259 Single	8 7 12 7 77 Widowed	2 4 2 3 24 Unknown.	-	61	243 Single		2 3 18 Unknown.		2 75 Married	9 11 1 108 Single	
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8, 1874.	July. August, September. December. Jovember. Jovember. Jovember. Jovember. Jovember. Jovember. Jovember. Jovember.	103 128 118 128 113 155 6	50 57 48 62 55 88 4 725 Married	53 48 38 52 9 502 Single	12 125 Widowed	4 1 1 6 4 4 5 3 42 Unknown.	68 63 67 67 85 2	25 30 24 31 26 53 2	24 31 29 25 27 22 239 Single	8 4 5 4 8 7 12 7 77 Widowed	3 1 3 2 4 2 3 24 Unknown.	48 60 55 61 46 70 4	25 27 24 31 29 35 2	243 Single		8	22 14 20 21 20 27 3	2 75 Married	12 9 11 1 108 Single	2 2 3 19 Witlowed
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

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>	AND PAT	CLASS III.	Bakers.			Blacksmiths.			Cabinet-makers.	Car Builders.	Car Finishers.		Coopers.		Engineers.	Gunsmiths.	Machinists.	Marble-cutters.		Mechanics.		
ď	SEA AND OCCUPATION	CLAS	B			Blac			Cabine	Car	Car F		ဝိ		En	Gar	Mac	Marbl		Mec		
	CONDITION.			Total)	Married	_ .	Widowed.	Unknown.	;	;	•	Total)	<u>-</u> -	Single					Total)	- -	Single	
		•	Married Ba	12 Total)	8 Married	g Single Blaci	Widowed.	1 Unknown.	Married Cabine	1 Single Car I	I Single Car F	8 Total)	6 Married Co	2 Single	Married En	1 Married Gur	2 Married Mac	2 Married Marbl	5 Total)	3 Married Mec	2 Single	
	CONDITION.	62		1	8 Married	_ .	1 Widowed .	- 1 Unknown.	;	;	•		6 Married	Single				2 Married	5 Total)	- -	2 Single	
	YEAR, CONJUGAL 1874. CONDITION.	92	1 Married			2 Single }	1	1	2 Married	1 Single	I Single		6 Married		1 Married	1 Married	2 Married	2 Married		3 Married		
	Unknown, Year, Conjugal.	62	1 Married	1		2 Single }	:	1	2 Married	1 1 Single	I Single		6 Married		- 1 Married	Married	2 Married	1 2 Married	1	3 Married	-	
	Trans, Contuent.	12 62	1 Married	:		2 Single }	11	1	2 Married	1 Single	I Single		6 Married		- 1 Married	1 Married	2 Married	2 Married	1	1 3 Married		
	Nevember, Nevember, December, Str. Con Justin Str. Con Justin Str. Con Justin	6 12 62	1 Married	:	1 1	1 2 Single	:		1 2 Married	1 1 Single	I Single	1 1 29	6 Married		1 Married	Married	2 Married	1 2 Married	1	3 Married	1	
1874.	October. December. December. Unknown.	6 12 62	1 Married	:	1 1	1 2 Single	11		2 Married	1 1 Single	I Single		6 Married		1 Married	Married	2 Married	1 2 Married	1	1 3 Married		
нв, 1874.	September. Getuber. Gerember. Gerember. Gerember. Greember. Greember. Greember.	6 12 62	1 Married	:	1 1	1 2 Single	11		1 2 Married	1 1 Single	I Single	1 1 19	6 Married		1 1 Married	Married	2 Married	1 2 Married	1	1 3 Married	11	
тнв, 1874.	August, September. September.	6 12 62	1 Married	:	1 1	1 2 Single	11		1 2 Married	1 1 Single	I Single	1 1 9	6 Married		1 Married	Married	2 Married	1 2 Married	1	1 3 Married	1	
нв, 1874.	June, Ju	6 12 62	1 Married	:	1 1 1 1	1 1 2 Single	11		1 2 Married	1 1 Single	I Single	1 1 19	6 Married		1 1 Married	Married	2 Married	1 2 Married	1	1 3 Married	11	
OMTHS, 1874.	June, June, June, June, June, July, Getober. Getober. Getober. Getober. Getober. Juknown, E. F. F. F. F. F. F. F. F. F. F. F. F. F.	1 1 7 6 6 12 52	1 Married	64	1 1 1 1	1 2 Single	11		1 2 Married	1 1 Single	I Single	1 2 1 1 2	1 1 1 2 6 Married		1 Married	Married	2 Married	1 2 Married	1	1 3 Married	11	
OMTHS, 1874.	April. May. June, June, June, June, Juny. September. October. October. Genember.	7 1 1 7 6 6 12 62	1 Married	64	1 1 1 1	1 2 Single	11		1 2 Married	1 1 Single	I Single	1 1 19	1 1 2 6 Married		1 1 Married	Married	2 Married	1 2 Married	1	1 3 Married	11	
OMTHS, 1874.	June, June, June, June, June, July, Getober. Getober. Getober. Getober. Getober. Juknown, E. F. F. F. F. F. F. F. F. F. F. F. F. F.	9 7 1 1 7 6 6 12 62	1 Married	64	1 1 1 1	1 2 Single	11		1 2 Married	1 1 Single	I Single	1 2 1 1 2	1 1 1 2 6 Married		1 Married	Married	2 Married	1 2 Married	1	1 3 Married	11	

	×	
	Single	
1 3 Tot	Total]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 Sing	Single Sawyers.	: : : : : : : : : : : : : : : : : : :
1 Wid	Widowed.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 Mar	Married Soap-makers.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Married Stone-cutters.	
1 2 Tota	Total	(
1 Mar	Married } Tinsmiths.	1 mm mm mm mm mm mm mm mm mm mm mm mm mm
	Single	1
3 Sing	Single Upholsterers.	1 1
- 1 - 2 Total	11	11
1 Married	ied Wagon-makers.	1
1 Single	[
4 1 20	CLASS IV.	
1 2 5 Total	11	6 6 7
1 3 Married	ied Barbers.	
1 2 Single	[
	ied Carders.	1
1 Sing	Single Gigar-makers.	
1 1 2 Sing	Single Printers.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 2 7 Married	ied Shoemakers.	61
1 1 4 Total	[]	2 1
Married	ied } Tailors.	
- Single		

1874.
onsumption,
from C
D.—Deaths
CONTINUEL
XXVIII.—
TABLE

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YEARS, -1874.	70 40 12	103	- 1	04	44	1	1	- 1	H	1	-	-		.00	10	1		1.8			1	
ī	1 65 to 70.	20	- 1	60	01		-	1		:	-	- ;	:	- ;		1	:	1	- :			
æ	'29 et 09 1	1-	-:	9	69	-	40	-:	-	-	:	- ;	:	64	;	. ;	;	.;	:	-	-	
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	32 to 40.	7	-	ř×.	4	60	1						- 14)		-)				
PERIODS	30 to 35.		- 1		64	10		•			- 9		1	*	г	18	-		- 10	- (6)	+	
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H	12 to 20.	10	+	10	-:	10	+	1	÷	1	+	1	1	1	1	1	1	1	÷	:	+	-
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-	Under 5.	:	1	1	1	1	-		1	1	_;	1	i	-	i	+			1	_	-	_
×	AND OCCUPATION.	CLASS V.	House-keepers.			Laborers.				Miners.		Raftsmen.	Workers in Mill.	OLASS VI.		Agents.		Agents for Musical Instr's.	Agents for R. R. Co.		Butchers.	
	CONJUGAL CONDITION.		Married	Total]	Married	Single	Widowed.	Unknown.	Total	Married }	Single	Married	1 Married	***************************************	Total]	Married	Single	Married	Married	Total]	Married	Ringle
	Укав, 1874.	93	¢,	84	41	33	92	1	9	*	1	1	r	12	99	7	-	-	1	60	04	-
_	Unknown.	- 1	:	1	-1	- 1	1	- ;	-:	- ;	:	:	- 1	:	1	T	1	:	-	- 1	1	
	December.	12	1	9	4	9	-	1	01	-	-	1	1	00	-	-	1	1	1	-	-	
	Мотешьег.	10	1	9	60	60	1	1	-	-	-	-	1	04	1	1	1	-	1	1	1	
	October,	90	Î	7	4	00	Ī	1	-	-	1	-	1	-	1	T	Ť	1	-	-	H	
÷	September.	10	i	10	01	60	Ť	1	1	1	i	İ	1	-	Í	i	Ť	İ	1	1	1	
1874	yecher	65	Ť	133	7	00	i	+	i	1	Ì	1	i	1	1	İ	Ť	i	İ	İ	Ť	
	July.	ю	÷	7	60	-	i	1	-	-	÷	Ť	i	63	Ť	Ť	i	i	÷	÷	t	-
H	Jane	90	+	7	9	-	+	1	1	1	÷	1	1	-	÷	+	+	+	:	1	+	
MONTH	-	00	1	90	00	2	+	+	1	+	+	- 1	-	60	+	+	+	-	1	+	+	
	May.	10		6	*	*	-	+	+	1	+	1	+	-,	1	+	1	-	1	1	+	
	April	7 30		9	10			1	1	1		1	-	19	1	1	-	1	- 1	1	1	
	March		i			1	-	1	1	1	1	-				1	-7	1				
	February.	9	- }	9	04	60	-	1	- 1	- 1	- 1	- 1	- ;		-1	-1	1	-	1	1	1	-
	January.	4	:	20	-	- 04	. :	- 1	- 1	- ;		-		-	;	:	- ;			- 1		

	-		1 Unknown.	Constables.		
-	-	1	1 Married	Draymen.	1	1 - 1
	-		1 Single	Firemen on R. R.	: :	
1	1		Married	Hunters.	1	1
	1	-	1 Single	Livery.keapers.	1	1
01			5 Total)		:	1 1 1 1
1	11	1	8 Married	Lumbermen.	1 1	1
1	1	1	2 Single		1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-		1	Married	Street Sprinklers.	1	1
. 1	-		2 Married	Teamsters.	:	1 1
1		1	1 Single	Travolers.	:	1
61	1 1	1	9	CLASS VII.	1	1 1 1
1	1	1	2 Married	Captains.	1 1	
1 1	-	-	8 Total		1 1	
	1		9 Married	Sailora.		
1	1	1	1 Single		1 1 1	
		1	Married	Steamboat Captains.	1	1
	-	1		CLASS VIIL	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11 60	9	8 89	5	CLASS IX.	:::::::::::::::::::::::::::::::::::::::	7 7 5 6 5 1 3 2 1 1
	1	1	1 Married	Bankers.	1	1
	1		1 Single	Book-keepers.	1 1	
	1	1	Married	City Treasurers.	1	
	-	1	Married	Clerks, R. R.	1 1	
1	1	. 1 .	d Total		1 1	1
	1	1	1 Married	Clerks	1 1	3
1	-	. 1 1	S Single		1	
1	-		1 Single	Clothlers.	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

AGES IN PERIODS OF YEARS, -1874.	25 of 02 55. 25. 25. 25. 25. 25. 25. 25. 25. 25	1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11.1.1	1			1 1 1 1		1		1 1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 mm 1 mm mm mm mm mm mm mm mm mm mm mm		1	1
Ă	Under &		i	:	i	i	İ	1	İ	:	į	i	İ	İ	i	İ	1	i	1	- 1
5	SEA AND OCCUPATION.	Custom-house Officers.	Dealers.	Druggists.	Express Agents.	Grocers.	Hotel-keepers.	Liquor Dealers.		Monohente	more chantes		Restaurant-keepers.	Salesmen.		Saloon keepers.		Store-keepers.	Tobacco Merchants.	Undertakers
	CONJUGAL COMBITION.		Married	Married	Married	Married	Married	Married	Total)	Married	Single	Widowed		Single	Total)	Married}	Single	Married		Married
	-	1 Married C	Married	3 Married	Married	5 Married	3 Married	1 Married	10 Total)	7 Married	2 Single	Widowed	1 Married I	1 Single	2 Total)	1 Married	1 Single	1 Married	1 Married T	1 Married
			1 Married	1 s Married	1 1 Married	5 Married	1 8 Married	1 Married	2 10 Total)	1 7 Married	1 2 Single	1 Widowed		1 Single		1 Married	1 Single	1 Married		J 1 Married
	Unknown.	1 Married	1	1 s Married	1 1 Married	5 Married	1 8 Married	- 3	-1	1 7 Married	2 Single	-):	1 Married	:	01	1 Married	1	,	1 Married	;
	December.	1 Married	1	1 8	1 1 Married	-: 1	1	- 3	-1	1 7 Married	1 2 Single	1	1 Married	:	01	1 Married			1 Married	3
74.	Хотешьет. Повеночи.	1 Married	1	1 8	1 1 Married	-: 1	1	- 3	-1	1 1 7 Married	1 2 Single	1	1 Married	:	01	1 Married			1 1 Married	3
, 1874.	Noteber. Notember. December. Unknown.	1 Married	1	1 8		-: 1	1	- 3	61	. 1 1 7 Married	1 1 2 Single	1	1 Married		01	1 Married			1 1 Married	3
н 8, 1874.	Веріешрег. Осторет. Бочешрет. Пикночт.	1 Married	1	1 8	1 1 Married	-: 1	1 1	- 3	61	1 1 7 Married	1 1 2 Single	1	1 Married			1 Married			1 1 Married	3
HTK	August. September. Nortember. December. December. Sig. K.A.	1 Married	1	1 8	1 1 Married	-: 1	1 1	- 3	61	1 1 7 Married	1 2 Single	1	1 Married			1 Married			1 1 Married	3
Ħ	August, August, September, October, November, December, Tanknown, Tanknown,	1 Married	1	1 8	1 Married	-: 1	1 1	- 3	61	1 1 7 Married		1	1 Married			1 1 Married			1 1 Married	3
ONTH	June. July. August. September. November. December. December. Takenown.	1 Married	1	1 8	1 Married	-: 1	1 1	- 3	61	1 1 1 7 Married	1 2 Single	1	1 Married			1 Married			1 1 Married	3
ONTH	May. June. June. July. August. September. October. November. December.	1 Married	1	1 8	1 1 Married	-: 1	1 1 1	- 3	61	2 1 7 Married	1 2 Single	1	1 Married			1 Married			1 1 Married	3
ONTH	Jange. July. August. September. October. November. December. Torknown.	1 Married	1	1 8		-: 1	1 1	- 3	1 1 2 2	1 1 1		1	1 Married						1 1 Married	3

i	1	1	1	i	1	-	1	1	1 Married	Architects.	1	+	1	1	1		1	1
i	1	1	1	İ	i	1	1	1	1 Married	Dentists.	1	1	1	1:	1	1	1	- 1
1	1	-	1	i	1	1	1	÷	I Married	Draughtsmen.	1	-	1	1	1	1	1	- 1
1	1	1	1	1	1	1	1	1	1 Married	Editors.	1	-	1		1	1	1	- [
1	1	1	Ħ	1	1	1	1	1	1 Married	Lake Surveyors.		1	1	1	1	-	1	1
1	01	-	Ì	1	-	1	1	1	4 Total			1	-	1	1	64	;	-
1	H	1	1	1	1	1	1	1	1 Married	Tawwase		1	1	1	1	1	1	1
i	1	1	İ	1	F	+	1	1	1 Single	Trum Joses.	1	+	-	1	1	1	1	1
i	-	7	ł	1	1	1	1	1	2 Widowed.		1	1	1	1	1	1	- 1	-
1	-	1	1	İ	1	1	1	1	I Unknown.	Ministers.	1	-	1	1	1	1	1	
İ	1	i	1	i	1	1	1	:	1 Married	Music Teachers.	1	+	1	+	1	1	1	:
1	-	:	1	-	-	1	1	1	4 Married	Physicians.	1	-	1	1	-	-	1	1
İ	1	1	1	1	+	1		1	1 Single	Prof. in College.	1	1	-	-	1	1	1	1
Ì	1	1	1	1	1	1	1	1	1 Single	Stenographers.		****		-	1	1	4	1
İ	i		1	1	1	1	1	- [1 Single	Students.	1	-	1	-	1	1	1	1
1	-	1	Ī	Ť	+	-	-	1	1 Widowed.	Writers for Paper.	1	1	1	1	1	1	-	1
*	6	,	*	=	14	п	-	7	73	CLASS XI.	53 4 6 3	-	01	64	-	-	1	-
1	-	1	1	1	1	1	1	1	1 Single	Paupers.	1	+	-	1	1	1	1	1
+	00	*	7	7	14	=	-	7	72 Total		53 4 4 3	-	1 2	61	1	:	1	-
1	1	-	1	1	1	1	1	1	2 Married	The same of the same		1	1	:	1	1	1	_
85	00	60	*	=	14	=	H	1	69 Single	Chempioyed.	53 4 4 3	-	1	-	1	1	+	- [
-	1	1	1	İ	1	1	1	3	1 Widowed.			1	1	1		1	1	1
28	8	62	4	22	20	88	53	64 1	574	CLASS XII. (Females.)	51 4 15 48	2	73 63	49 35	23 25 23	3 14 25	12 16	60
İ	+	1	1	1	1	1	1	1	I Widowed	Boarders.	1	-	1	1	-	1	1	1
i	1	1	-	-	1	1	1	1	I Married	Carpenters.		1	-		1	1	1	1
						19			Marriad	Carnon tares Wires						_		-

TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

YEARS,-1874.	60 to 65. 65 to 70. 70 to 75. 75 to 80. 80 and Over. Unknown.	1 1 1		1 1 1 1 1 1	1 1 1 1	1 1	1 1 1		4	8	1 1	11		1	- 1 - 1 - 1	1		10 19 10 11 2 5	6 13 2 3 1 2	61
0 %	35 to 40. 1 do to 45. 1 do to 55. 50 to 55.			1	1 1 1	1 1 1			1 5 5	1 2 1	1 1 1 1	2 1 1	1 1		4 4 2 1 2	4 4 10 1		36 19 9 15 16	32 18 7 19 9	1 1
PERIODS	30 to 32,	6	Ç1	4	1	1	d	1	٦	1	1		.1	-	9	9	4	34	83	2
	25 to 80.	01	1	-	1	1	1	-	-	61	1	1	1	61	60	60	1	4	88	01
AGES IN	Under 5. Under 5. 10 to 10. 1 10 to 15. 1 15 to 20. 1 15 to 20. 2 10 25. 2 10 25.	jj	11111	1				1	*	1	60						1	f 2 10 39	5	61
>	AND OCCUPATION.		Domestic Helpers.			Dress-makers.		Engravers.			Farmers.			Farmers' Daughters.		Farmers' Wives.				House-keepers.
			Д											Far		Fa				-
	CONDITION.	Total]	Married D	Single	Total]	Married	Single	Married	Total]	Married	Single	Widowed.	Unknown.		Total)		Widowed.	Total]	Married	-4
		10 Total		8 Single	7 Total]	3 Married	4 Single	1 Married	28 Total]	14 Married	5 Single	7 Widowed.	2 Unknown.	3 Single Far	27 Total)	26 Married Fr	1 Widowed.	278 Total]	205 Married	29 Single
	-	100		60	- 1	:	+	1	1	14			1	3 Single	1	26 Married	1 Widowed.	п	H	-4
	YEAR, 1874.	10	2 Married	60	7	60	4			14	10	7	61	3 Single		26 Married				29 Single
	Тикпоwп. 1874.	100	2 Married	60	- 1	:	+	1	1	14	10	7	1	3 Single	1	26 Married		п	H	29 Single
	December.	1 10	2 Married	1 8		:	+	1	:	14	10	7	1	3 Single	61	2 26 Married		37 1	30 1	29 Single
74.	November. December. Unknown.	2 1 10	2 Married	1 8			•	-	1 00	1 2 14	1 5	1 - 7		2 3 Single	61	2 26 Married		23 37 1	11 30 1	29 Single
, 1874.	November. December. Unknown.	2 1 10	2 Married	8			+	-	10 04 09	1 2 14	1 5	1 2 1 7	1	2 3 Single	1 2 :2	1 2 2 26 Married		28 23 37 1	19 11 30 1	29 Single
	September. October. November. December. Unknown.	2 2 1 10	2 Married	8			•	-	64 69	1 8 1 2 14	1 5	2 1 7	1	2 3 Single	1 2 :2	1 2 2 26 Married		21 24 28 23 37 1	15 19 11 30 1	29 Single
	August. September. October. November. December. Unknown.	2 2 1 10	2 Married	8	1		1	-	69 69	1 8 1 2 14	1 5	1 2 1 7	1	2 3 Single	1 2 :2	1 2 2 26 Married		17 21 24 28 23 37 1	17 15 19 11 30 1	3 4 4 4 3 29 Single
	Auly. August. September. October. November. December.	2 2 1 10	2 Married	8	1		1	-	100 00 00 00 00 00 00 00 00 00 00 00 00	1 8 1 2 14	1 5	1 2 1 7	1	2 3 Single	1 1 4 6 1 2 2	1 2 2 26 Married		28 17 21 24 28 23 37 1	12 17 15 19 11 30 1	3 4 4 4 3 29 Single
	June. August. September. October. November. December.	2 10	2 Married		7 1 3 1 7	1 1 1 8	4		100 00 00 00 00 00 00 00 00 00 00 00 00	1 1 8 1 2 14	1 5	7 1 2 7	64	2 3 Single	1 1 4 6 1 2 2	1 1 4 5 1 2 2 26 Married		30 28 17 21 24 28 23 37 1	26 12 17 15 19 11 30 1	3 4 4 4 3 29 Single
	June. July. August. September. October. Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember.	2 2 1 10	2 Married	8	1 3 1 7	1 1 8	4		100 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 8 1 2 14	1 5	7 1 2 7	64	2 3 Single	9 5 1 1 4 6 1 2 :2	5 1 1 4 5 1 2 2 26 Married		26 30 28 17 21 24 28 23 37 1	26 26 12 17 15 19 11 30 1	1 2 3 4 4 4 3 29 Single

8 2 2 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	9 6	9				1 1	1	1	1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				3 1			: : : : : : : : : : : : : : : : : : :	1		
	House-wives.				House-workers.			Laborers.		Masons' Wives.	Matrons.		Milliners.		Moulders' Wives.	Physicians' Wives.	Seamstresses.		Servants.		Students		Tailoresses.	
52 Total	2 Single	3 Widowed.	3 Unknown.	18 Total	14 Single	Widowed.	Total]	Married	Single	Married	Married	Total]	pa	·····	pe	т.р	,	-	Married	Single		Total	Married	Single
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1874.

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	Under 5.	1	1		-	1	-		1	1		
	AND OCCUPATION.	1	Teachers.		_	_	Cucmprosed		_	Weavers.	_	
	4 8		1	1				P	1	1	- 1	- 1
	CONDITION.	Total	Married	Single.	Total	Married	Single	Widowe	Total	Single	Widowed	Married
		23 Total	3 Married	20 Single	91 Total	8 Married.	77 Single	6 Widowed	2 Total	1 Single	1 Widowed	9 Married
		23 Total	3 Married	20 Single	91 Total		77 Single	6 Widowe	2 Total	1 Single	1 Widowed	
	YEAR, 1874.		63	30		80	4		1	-	-	
	Unknown, 1874,			30	1		11		64			
	December. Unknown.		1 3	2 1 20	9	8	6 77	1	1		-	
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нв, 1874.	September. October. November. December. Datemown.	69	1 3	5 2 1 30	8 6 9 6	8	8 6 8 6 77		1		1 1	1 2 Married
NTES, 1874.	August. September. Toctober. Toctober. Toctober. Toctober. Toctober. Toctober.	69	1 3	8 5 2 1 90	18 8 6 9 6	1 8	17 8 6 8 6 77	1 1 1	1		1 1	
MONTHS, 1874.	July. August. September. October. Movember. Incomber.	69	1 3	8 5 2 1 90	18 8 6 9 6	8	17 8 6 8 6 77	1 1 1	1 1 2	1 1	1 1	
Момтив, 1874.	June, July. August, September. November. November. The Movember. Signature of the Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember. The Movember.	1 4 3 5 3 1	1 3	2 1 4 8 5 2 1 20	18 8 6 9 6	1 8	4 4 17 8 6 8 6 77	1 1 1	1 1 2	1	1 1 1	
MONTHS, 1874.	June. July. July. September. October. November. Incomber.	60 60	1 1 3	2 1 4 8 5 2 1 20	7 4 6 18 8 6 9 6	1 1 1 8	6 4 4 17 8 6 8 6 77	1 1 1 1	1 1 2		1	
MONTHS, 1874.	April. May. June. June. July. September. November. November. Movember.	60 60	1 3	2 1 4 8 5 2 1 20	7 4 6 18 8 6 9 6	1 1 8	6 4 4 17 8 6 8 6 77	1 1 1	1 1 2	1	1 1 1	

EXHIBIT Q.—The Average Age of the Inhabitants of Michigan, of both sexes, of each sex, and the difference between the sexes, for All Living, June 1, 1870, and all returned as having Died during the Year ending June 1, 1870, as Compiled from the U.S. Census of that date; for all returned as having Died from Consumption during the Years 1870, 1872, 1873, and 1874; for all returned as having Died from All Causes during the Years 1870 to 1874, inclusive, as shown by the Registration Returns; for All Living Aged Twenty and Over, as per Census, June 1, 1870; for All Aged Twenty and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 to 1874, inclusive, and for the Native and Foreign-born Inhabitants returned as having died during the Years 1873 and 1874.

	YEAR			YEARS AND A YEAR	
	Ending:	Total.	Males.	Fo- males,	Excess, Males,
Deaths, as per Census	June 1, 1870.	24,79	25,17	24.89	.78
Living, as per Census	June 1, 1870.	24.82	24.91	28.68	1.28
Deaths, as shown by Registration Returns	Dec. 81, 1870.	23.50	24.05	22.89	1.16
Deaths from Consumption by Registration Returns	Dec. 81, 1870.	84,95	36.89	88.14	8.75
All living aged 20 and over, per Census	June 1, 1870.	38.23	88.61	87.80	.81
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 81, 1870.	51.01	52.45	45.96	6.49
Deaths as shown by Registration Returns	Dec. 81, 1871.	25.63	26.78	24.50	2,28
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 81, 1871.	51.44	52,79	46.45	6.84
Deaths as shown by Registration Returns	Dec. 81, 187%	24.17	25.09	23.17	1.92
Deaths from Consumption by Registration Returns	Dec. 81, 1872.	85.05	89.10	81.19	7.91
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 81, 1872.	50.78	51.90	47.08	4.82
All who died aged 20 years and over as shown by Reg- istration Returns "Average years of life" after the age of 20 years, as shown by Table VII., page 197, Report of 1872, plus 20 years,—indicating the "Average Age at Death" of all who died aged 20 years and over according to	Dec. 31, 1872.	49,72	51,67	47.42	4.25
that Life Table	Dec. 81, 1870.		63.72	62.02	1.70
Deaths as shown by Registration Returns Deaths of Native-born Inhabitants as shown by Reg-	Dec. 31, 1878.	81,20	81.95	30.14	1.81
istration Returns	Dec. 81, 1873.	27.25	27.76	26.71	1.05
istration Returns	Dec. 81, 1878.	43.87	40.68	42.85	-1.67
Deaths from Consumption by Registration Returns All aged 20 and over whose occupations were stated	Dec. 81, 1878.	87.81	40.20	85.77	4.43
in Registration Returns of Deaths	Dec. 81, 1878.	50,17	56.51	48.27	8.24
Registration Returns	Dec. 81, 1873.	49.87	51.48	47.66	8,82
Deaths as shown by Registration Returns.	Dec. 31, 1874.	25.83	25.78	24,09	.83
Deaths of Native-born Inhabitants as shown by Registration Returns	Dec. 31, 1874.	20.26	23,99	20.25	8.74
Deaths of Foreign-born Inhabitants as shown by Registration Returns	Dec. 31, 1874.	47.15	47.99	46.13	1.86
Deaths from Consumption by Registration Returns.	Dec. 81, 1874.	36.48	89.90	88.44	6.46
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.	Dec. 31, 1874.	50.98	53.07	48.23	4.84
All who died aged 20 years and over as shown by Registration Returns	Dec. 81, 1874.	50.89	52.84	48.79	4.19

Exhibit Q contains many items of interest to one who will give it careful study. The State is new, and its inhabitants do not include as large a proportion of old people as do those of older States. The average age at death is therefore not as much as might otherwise be expected. It may be seen that for the year 1873 the average age seems to have been greater than in other

years. Perhaps this was due to the excessively cold weather in the winter of 1872-3, which was fatal to a larger proportion of old than of middle aged or young people.

Table XXIX. contains data bearing upon the subject of the influence of occupation upon the death-rate. According to this table, business men live the longest, the average age of those who died in Michigan in 1874, aged over 20 years, being 66.42 years. Next to this class in longevity of life came the cultivators of the earth, whose average age was 57.32 years. The shortest-lived were those classified as Active Mechanics Abroad—Class II.—whose average age was only 41.92 years. The particular occupations of people included in this class may be seen by examining the table.

TABLE XXIV.—Exhibiting, by Classified Occupations, the Number of Decedents returned for 1874 Aged Twenty Years and Over, whose Occupations and Ages were returned, with the Aggregate and Average Ages, One-half of a Year added to Age of each Person, in place of Months and Days Excluded.

_		Number	Age in Years.	
CLASS.	OCCUPATIONS,—1874.	of Persons.	Aggregate.	Average.
	ALL SPECIFIED OCCUPATIONS	4,691	239,168.50	50,98
I.	CULTIVATORS OF THE EARTH	1,455	88,400.00	57.32
II.	ACTIVE MECHANICS ABROAD	159	7,664.50	41,92
III.	ACTIVE MECHANICS IN SHOPS	190	8,881.50	48.74
17.	INACTIVE MECHANICS IN SHOPS	87	4,280.50	48.97
₹.	LABORERS-No SPECIAL TRADES	405	17,186.00	42,30
VI.	AGENTS, LABORERS ABROAD, ETC	84	8,987.00	46.27
VIL.	SEAFARING MEN	82	1,854.00	42.31
VIII.	SOLDIERS			
IX.	BUSINESS MEN	123	8,108.00	66.42
X.	PROFESSIONAL MEN	74	8,592.00	48.54
XL	Unemployed	58	8,186.00	54.98
XIL	FEMALES	2,025	97,671.50	48.23
I.	CULTIVATORS OF THE EARTH	1,455	88,400.00	57.32
	Farmers	1,420	81,645.00	57.49
	Farm Laborers	19	724.50	38.13
	Fruit Growers	2	128.00	63.00
	Gardeners	12	750,00	69.50
	Horticulturists	1	75,50	75.50
	Retired Farmers	1	79.50	79.50
IL.	ACTIVE MECHANICS ABROAD	159	7,664.50	41.92
	Carpenters	100	4,755.00	47.55
	Carpenters and Joiners	1	78.50	78.50
	Joiners	4	229.00	57.25

TABLE XXIX.—Continued.—Occupations of Decedents in 1874.

~	. OCOVED A MILONO 1994	Number	Yes in	Years.
CLASS.	OCOUPATIONS,—1874.	of Persons.	Aggregate.	Average,
ıſ.	ACTIVE MECHANICS ABROAD—(Continued).			
	Masons	28	1,447.00	51.6
	Painters	17	608,50	85.79
	Pavers	1	46.50	46.5
	Ship-carpenters	1	69,50	69,5
	Shipwrights	1	41.50	41.5
	Stone-masons	6	394,00	65.6
111.	ACTIVE MECHANICS IN SHOPS	390	8,881.50	46.7
	Bakers	5	290,50	56.1
	Basket-makers	2	140.00	70.0
	Blacksmiths	39	2,042.50	52.8
	Brewers	8	119.50	89,8
	Brick-makers	1	89.50	82.5
	Brick-moulders	1	80,50	89.5
	Broom-makers	3	144.00	79.0
-	Brush-makers	1	78.50	78.5
	Cabinet-makers	8	506,00	68.9
	Car Builders	1	41.50	41.5
	Carders	1	80.50	30.5
	Carriage-makers	2	73.50	86.8
	Carriage Painters	1	24.50	24.5
	Cloth Dyers	1	74.50	74.5
	Cooks	1	48.50	48.5
	Coopers	21	104,50	47.8
ļ	Curriers	1	79.50	79.5
	Employes of Gas Co	1	50.50	50.5
ŀ	Engineers	9	853.50	39.2
	Founders	1	42.50	42.5
	Foundrymen	1	76.50	76.5
1	Furniture Manufacturers	1	45.50	45.5
	Gunsmiths	8	149.50	49.8
i	Machinists	4	228,00	57.0
	Marble-cutters	9	67.00	83.5
	Mechanics	13	640.50	49.2
	Millers	13	634.50	48.8
	Millwrights	3	131.00	65.54
	Moulders	7	264.50	87.79

TABLE XXIX.—Continued.—Occupations of Decedents in 1874.

Class.	OCCUPATIONS,—1874.	Number	AGE IN YEARS.	
		of Persons,	Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Pattern-makers	2	143.00	71,5
j	Puddlers	1	70.50	70.5
!	Pump-makers	1	30.50	30.5
	Salt-boilers	1	48.50	48.5
;	Sawyers	7	878.50	54.0
:	Smelters	1	84.50	34.5
	Seap-makers	1	69.50	69.5
:	Spectacle-makers	1	20.50	20.5
:	Tanners	2	116.00	58.0
,	Tinners	8	102.50	34. 1
ł	Turners	1	64.50	64.5
1	Upholsterers	2	48.00	24.0
	Wagon-makers	12	707.00	58.9
	Weavers	8	222.50	74.1
	Wheelwrights	2	100.00	50.0
	Whip-sawyers	1	8L50	84.5
	Wood Turners	1	51.50	51.5
ıv.	INACTIVE MECHANICS IN SHOPS	87	4,280.50	48.9
	Barbers	8	280.00	35.0
	Cigar-makers	3	138.50	46.1
1	Harness-makers	3	104.50	84.8
	Jewelers	8	132,50	44.1
	Printers	4	130,00	32.5
	Seamsters	1	24.50	24.5
	Shoemakers	87	2,018.50	54.5
	Tailors	22	1,247.00	56.6
	Telegraphers	3	84.50	28.1
	Tobacconists	2	74.00	37.0
	Tobacco Merchants	1	26.50	96.8
v.	LABORERS-NO SPECIAL TRADES	405	17,168.50	42.1
	".Detroit Dry Dock Co."	1	46,50	46.8
	Ditchers	1	79.50	79.5
	House-keepers	2	89,00	44.8
	Janitors	1	68,50	68,8
	Laborers	349	15,128.50	48.8

TABLE XXIX.—Continued.—Occupations of Decedents in 1874.

	OGGYP - WYONG - 1994	Number	AGE IN YEARS.	
CLASS.	OCCUPATIONS,—1874.	of Persons.	Aggregate.	Average,
v.	LABORERS—NO SPECIAL TRADES—(Continued.)			
	Loggers	1	44.50	44.50
	"Mill Hand"	2	72.00	36.00
	"Mill Men"	1	47.50	47.5
	Miners	37	1,483.50	38.7
	Plumbers	2	112.00	56,0
	Porters	2	47.00	23.5
	Raftsmen	1	42.50	42.5
	"Saw-mill"	1	81.50	31.5
	Sexton at Cemetery	1	43,50	43.5
	Street-sprinklers	1	54.50	54.5
	Wood-choppers	2	62,00	81.0
·VL	AGENTS, LABORERS ABROAD, ETC	84	3,887.00	46.9
	Agents.	1	81.50	81.5
	Agents for Musical Instruments	1	27.50	27.5
	Baggagemen	1	56.50	56.5
	Brakemen	3	79.50	26.5
į	Butchers	9	417.50	46.8
	Caterors	1	59,50	59.8
	Commercial Agents	4	183.00	45.7
	Conductors	2	86.00	43.0
	Constables	3	158.50	59,6
,	Draymen	3	178,50	57.8
	Express Messengers	1	86.50	36.0
	Firemen on R. R.	1	22,50	22.5
	Foremen in Saw-mill	1	43.50	43.5
	Freight Agents	1	26.50	26.8
	Fruit Agents	1	28.50	28.5
	General Traffickers	1	38.50	38.4
	Hostlers	1	87.50	87.5
	Hunters	2	90,00	45.0
	Livery Business	2	70.00	85.0
	Lumbermen	19	921.50	48.0
	Lumber Scalers	1	53,50	53.0
	Mail Agents	1	46,50	46.5
	Milk Dealers	1	60,50	60.5

TABLE XXIX.—Continued.—Occupations of Decedents in 1874.

Class.	OCCUPATIONS,—1874.	NUMBER AGE 1		N TRARS.	
CLASS.	OUCUFAITURS,—1012	Persons.	Aggregate.	Average.	
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)				
	Milk Peddlers	1	59.50	59,50	
	Peddlers	5	231,50	46.80	
	R. R. Agents	2	78.00	89,00	
	R. R. Conductors	2	88.00	41.50	
	R. R. Engineers	1	60,50	60.5	
	Rail Straighteners	1	88,50	38,5	
	Teamsters	9	422.50	46,9	
	Trappers	1	104.50	104.5	
	Watchmen on R. R	1	59.59	59.5	
VII.	SEAFARING MEN	82	1,354.00	42.8	
	Captains	8	180,50	60,1	
	Fishermen	4	136.00	84.00	
	Lake Captains	9	85.00	42,50	
	Mariners	1	55.50	55.50	
	Sailors	23	897.00	40.7	
VIII.	SOLDIERS				
IX.	BUSINESS MEN	122	8,103.00	66,45	
	Accountants	1	89.50	39.50	
	Bankers	3	95.00	47.5	
	Boarding-house keepers	2	102.00	51.0	
	Book-keepers	11	897,50	36.14	
	Boot and Shoe Merchants	1	60,50	60.5	
	Brokers	1	77.50	77.50	
	Builders	1	83.50	83.50	
	Cashiers	2	108,00	54.00	
	City Treasurers	1	49.50	49.5	
	Clerks	16	495.00	80.9	
	Clothiers	2	72.00	36.00	
	Commission Merchants	1	42.50	42.5	
	Custom-house Officers	1	57.50	57.5	
	Dealers	1	47.50	47.50	
	Dealers in Stone and Sand	1	40.50	40.5	
	Druggists	6	253.00	49.17	
	Dry Goods Merchants	1	65,50	65,50	

CAUSES OF DEATHS,—OCCUPATIONS.

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1874.

On 100	OCCUPATIONS,—1874.	NUMBER OF	AGE IN	YEARS.
CLASS.	OCCUPATIONS,—1014.	PERSONS.	Aggregate.	Average.
IX.	BUSINESS MEN—(Continued.)			
	Express Agents	1	43.50	43.5
	Grocers	18	613 50	47. E
	Hatters	2	86,00	48.0
	Hotel-keepers	12	687.00	58.0
	Insurance Agents	4	944.00	61.0
	Justices of the Peace	2	183.00	96,5
	Land Agents	1	50,50	50.5
	Land Owners	1	57.50	57.5
	Liquor Dealers	1	82,50	82,5
	Lumber Inspectors	1	86,50	86.5
	Lumber Merchants	1	74.50	74.0
	Manufacturers	1	84,50	84.5
	Merchants	41	2,147.50	59.8
}	Money-lenders	8	196.50	65.5
	Photographers	1	44.50	44.5
	"Picture Frames"	1	47.50	47.5
	Postmasters	1	50.50	50.5
	Postoffice Clerks	1	64.50	64.5
	R. R. Olerks	1	29.50	29.5
1	Real Estate	1	70.50	70.5
	Restaurant keepers	1	40,50	40.5
	Salesmen	8	115.50	88.6
}	Saloon-keepers	17	779.50	45.4
	Secretary of Gas Co	1	53,50	58.5
	Stock-buyers	1	61,50	61.5
	Store-keepers	1	87.50	87.5
	Supt, of Gas Works	1	54.50	54.5
	Undertakers	1	25.50	25.5
	Wood Dealers	2	73.00	86.5
i	Wool Dealers	1	47.50	47.5
X.	PROFESSIONAL MEN	74	8,592.00	48.5
- 1	Architects	1	65.50	65.5
1	Artists	1	50.50	50.5
1	Attorneys	1	40.50	40.5
	Chemists	1	24.50	24.5
	Civil Engineers	1	25.50	25.50

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE XXIX.—Continued.—Occupations of Decedents in 1874.

	000000 1 000000 1000	Number	AGE IN YEARS.	
CLASS.	OCCUPATIONS,—1974.	of Persons,	Aggregate.	Average
x.	PROFESSIONAL MEN—(Continued.)			
	Dentists	8	138,50	46.1
	Draughtsmen	1	36,50	86.
	Editors	2	69.00	84.
	Interpreters	1	50.50	50.
	Judges	1	67.50	67.
	Lake Surveyors	1	61,50	61.
	Law Students	1	25.50	25.
1	Lawyers	8	447,00	55.
	Ministers	11	630,50	57.
	Music Teachers	1	63.50	63.
	Physicians	23	1,202.50	59.
	Physicians and Surgeons	1	69.50	69.
	Professors in Colleges	1	81,50	31
	Professors	1	57.50	57
	Stenographers	1	29.50	29.
	Students	4	88.00	22
	Surveyors	2	115.00	57.
	Teachers	 5	197.50	25.
	Writers for Papers	1	74.50	74
XI.	Unemployed	58	8,186.00	54
	Cripples	1	45,50	45
	"Gentlemen"	8	202,50	67
	Invalids	1	26.50	26
	Paupers	8	179.50	59
	Pensioners	1	46,50	46
	Retired	8	223.50	74
	Travelers	2	66.00	33
	Unemployed	44	2,396.00	54
XIL	FEMALES	2,025	97,671.50	48
	Baggagemen on R. R.	1	24.50	24
	Barbers' Wives	1	24.50	94
	Blacksmiths	1	36.50	36
	Blacksmiths' Wives	1	56.50	56
	Book-keepers	1	36,50	35
	Boarders	1	53.50	53

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1874.

3	OCCUPATIONS,—1874	Number	Age in Years.		
CLASS.		Persons.	Aggregate.	Average.	
XIL	FEMALES—(Continued.)				
	"Boarding-house"	1	44.50	44.50	
	Brass-founders' Wives	1	81,50	81.50	
	Butchers' Wives	1	57.50	57.50	
	Carpenters	1	48.50	48,50	
	Carpenters' Wives	8	168.50	54.50	
	Cooks	1	82.50	82.50	
	Coopers' Wives	1	88,50	83,50	
	Domestics	21	867.50	4L81	
	Dress-makers	14	459.00	82.29	
	Druggists' Wives	1	77.50	77.50	
	Farmers	140	7,541.00	53.86	
	Farmers' Daughters	4	92.00	23.00	
	Farmers' Wives	152	7,546.00	49.64	
	Governesses	1	69.50	69.50	
	Gunsmiths' Wives	1	95.50	95.50	
	Hair-dressers	1	80,50	80,50	
	Hotel-keepers	1	48.50	48,50	
	House-keepers	1,170	56,420.00	48.22	
	House-keepers and Weavers	1	70.50	70.50	
	House maids	1	20.50	20.50	
	House-servants	8	109.50	84.17	
	House-wives	176	8,019.00	45.56	
	House-workers.	54	2,470.00	45.74	
	Laborers	21	1,189.50	56.64	
	Laborers' Wives	-	227.00	56.75	
	Landladies	2	81.00	40.50	
	Laundresses	1	181.00	45.20	
	Lawyers' Wives	1	69.50	69.50	
	"Lived with her Son"	î	84.50	84.50	
	Masons' Wives.	1	82.50	32.50	
		8	82.50 867.00	45,88	
	Matrons	1	59.50	59.50	
		_		86.75	
	Milliners	12	441.00		
	Milk Peddlers	1	58.50	58.80	
	Ministers' Wives	l	76.50	76.50	
	Moulders' Wives	1	80,50	30.50	

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1874.

	OCCUPATIONS,—1874.	Number	AGE IN YEARS.	
LASS.		of Persons.	Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	Music Teachers	2	66.00	83.0
	Nurses	3	189.50	56.5
	Paupers	2	102,00	51.0
	Physicians	1	56.50	56.5
	Physicians' Wives	1	49.50	49.5
	Printers	1	20.50	20.5
	Prostitutes	2	41.00	20.5
	Retired	2	126.00	63.0
	Seamstresses	11	364,50	83.1
	Servants	7	208,50	29,71
	Speculators' Wives	1	26,50	26.5
	Spinsters	1	22.50	92.5
	Stone-cutters' Wives	1	66,50	66,5
	Tailoresses	8	426,00	53.2
	Tailors' Wives	1	81.50	51.5
	Teachers	84	923,00	27.11
	Unemployed	116	6,576.00	56.6
	Weavers	8	442.00	55.2
	Wives	9	897.50	44.17
	Worked in Paper-mill	1	23,50	23,5
	"Working Girls"	1	70.50	70.5

LAWS OF MICHIGAN

CONCERNING THE

SOLEMNIZATION OF MARRIAGES,

AND THE

RECORD, RETURN, AND COMPILATION

OF

BIRTHS, MARRIAGES, AND DEATHS;

WITH

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

4719. Who shall be capable of contracting Mar- 4797. No particular form required. riage.

4720. Marriage is a civil contract.

4721. Who shall not intermarry.

4723. 4724. Who not to marry.

4725. Marriage, by whom solemnized.

4726. One of parties to be examined on oath.

4728, Forfeiture for joining persons in Marriage contrary to law.

4729. Punishment of persons unauthorized, etc.

4730. Marriages not void in certain cases.

4731. Marriages among Quakers, etc.

4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.

(4719.) Section 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) Sec. 2. Marriage, so far as its validity in law is concerned, is a civil contract to which the consent of parties capable in law of contracting is es-

(4721.) Sec. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) Sec. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) Sec. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) Sec. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout

a For prior Statutes relative to the solemnization of Marriages, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 239; Rev. of 1827, p. 290; Laws of 1832, p. 6; Rev. of 1838, p. 839; R. S. of 1838 p. 833.

the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: Provided, That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen, of the compiled laws of eighteen hundred and seventy-one. *b

(4726.) Sec. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to

administer, as to the legality of such intended marriage.

(4727.) Sec. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.°

SEC. 11.°

SEC. 12.°

SEC. 13.°

(4728.) Sec. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) Sec. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and, upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year, or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) Sec. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner hereto-

fore used and practiced in their respective societies or denominations.

(4732.) Sec. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

As amended by Act No. 85, Laws of Michigan, 1873.
 Previous to 1871 the Mayor of Flint was also authorized to solemnize marriages.
 Repealed by Act 194, Laws of 1867, p. 286, Sec. 10.

CHAP. XVI., COMPILED LAWS OF 1871.

AN ACT TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES. AND DEATHS, BEING ACT NO. 194 OF 1867, AS AMENDED BY ACT NO. 125 OF 1869.

Duties of supervisors and assess-

In 1869 returns to be made from April 5 to Dec. 31, 1868.

Return to county clerk.

In 1870 and thereafter.

Returns to include from January to Deceming.

Statistics, how obtained.

Compensation. Proviso relative to the city of Detroit

Duty of common council.

Persons to be appointed by.

ons so appointed.

How paid. Penalties.

Section 1. The People of the State of Michigan enact, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight. together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual ber last preced- inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: Provided, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them, respect-Compensation of ively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

SEC. 2. Every justice of the peace, minister of the gospel, and Marriages to be all other persons authorized by law to solemnize marriages in this recorded. State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which Marriage of any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, Certificates to be shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording Foo for recordthe same.

SEC. 3. It shall be the duty of the county clerks of the several County clerks; counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The Births, marriages, and deaths shall be numbered and recorded in deaths to be the order in which they are received by the clerk, and the record indexed. of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate record of births columns, the date of the birth, the name of the child (if it have shall state. any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: Provided, That in case the child has no christian name, Proviso. such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The Record of marrecord of marriages shall state, in separate columns, the date and state. place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The Record of deaths record of deaths shall state, in separate columns, the date of the shall state.

^{[*} Blanks for return of marriages to the county clerk are prepared by the Secretary of State, and sent to the clerks of the several counties, from whom they may be obtained upon application.]

clerk.

death, the christian and surname of the deceased, the sex and color. whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was Return of county made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records of his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all

services required by this act to be performed by him.

Compensation.

Secretary of State shall fur-nish all blank books, blanks, instructions, etc.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record, in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

Returns to be indexed.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State, for that purpose,* he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Secretary of State to make annual report.

Neglect to keep records.

SEC. 6. Every justice of the peace, minister of the gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such Neglect to delive marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or

er certificates.

^{*} Practically amended by Section 10 of Act No. 81, Laws of Mich., 1878, printed on page 846.

who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of a misdemeanor, and upon Ponalty. conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the

period of ninety days.

SEC. 7. Every physician, surgeon, or midwife, who shall have cortificate of been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall Refusal to make neglect or refuse to give such statement, or who shall willfully certificate. make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than Penalty. fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to Facts to be obobtain the facts in relation to births and deaths within his town-visor. ship, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named Refusal to forpersons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and Obtained under if the supervisor or assessor shall have reason to believe that any oath. person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subposned (as pro-reglecting to vided for compelling the attendance of witnesses in justices' courts) answer a by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and Penalty. in default of paying the same shall be imprisoned in the county

Perjury.

Proviso.

jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglect to per-

Penalty.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Misdemeaner.

Sections re-

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of births, marriages and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

AN ACT to establish a State Board of Health, to provide for the appointment of a Superintendent of Vital Statistics, and to assign certain duties to Local Boards of Health, being Act No. 81, Laws of 1873.

Secretary of State Board of Health to be Superintendent of Vital Statistica. SEC. 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths.

Approved April 12, 1873.

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

A thorough knowledge of the law concerning the solemnization and return of marriages in Michigan is necessary to a correct performance of the duties of

persons authorized to solemnize marriages.

The most frequent violation of the law is in the marriage of persons under the lawful age, which is: for males eighteen (18) years, and for females sixteen (16) years. See Section (4719), Compiled Laws of 1871, printed on a previous page. The penalty for the violation of this provision is a forfeit of not exceeding five hundred (500) dollars. See Sec. (4728), Compiled Laws of 1871, printed on a previous page.

In the record and return of marriages, every item specified in the law should be carefully ascertained, and correctly and plainly written. No item should be omitted, and nothing taken for granted, as is often the case with the

fact as to COLOR of persons married.

In recording the BIRTHPLACE of each, the State or country should be distinctly given in each case. This will avoid the difficulty of ascertaining the nativity of persons whose birthplace is returned "Holland," "Hanover," "Denmark," "Wales," "Paris," etc.,—names of places which may be either in the United States or Europe. If such or similar names occur, please state whether it is Holland, Michigan, or Holland, Europe, and so for each case. Never return the birthplace "America," as we cannot know whether it is in the United States, and are therefore compelled to compile it with the "Unknown." For statistical purposes it is desirable that every item be furnished which is called for by the blank upon which you make your returns to your county clerk, giving close attention to the foot-notes upon the blank.

In making your returns to the county clerk, you should give your official

station, as well as your name.

Blanks for the return of marriages to the county clerk can be obtained of the county clerk, who can obtain them from the Secretary of State, at Lansing.

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